SELECTED VITAL STATISTICS AND HEALTH STATUS INDICATORS

ONE HUNDRED NINETEENTH

Annual Report 1990

Vital
Statistics
PLANNING FOR
TOMORROW

Province of British Columbia
Ministry of Health

MEMORANDUM

To: Recipients of Division of Vital Statistics
1990 Annual Report

Re: 1990 Annual Report

Please find attached a complimentary copy of the Division of Vital Statistics 1990 Annual Report.

Over the past few years we have been working on making this publication of greater utility to health care providers, planners and administrators alike. We are pleased with the outcome of the report this year and hope that you will find it to be a useful resource.

Within the next six months we would like to send you a brief survey to gain your perspectives on the report. We will be interested in knowing if you find the report to be useful, what other content items you might like to see included, and if you are still interested in receiving future Annual Reports.

Should you or an associate require an additional copy, they can be purchased through Crown Publications for a price of $16.95 + 7% GST. For your information the address and phone number is as follows:

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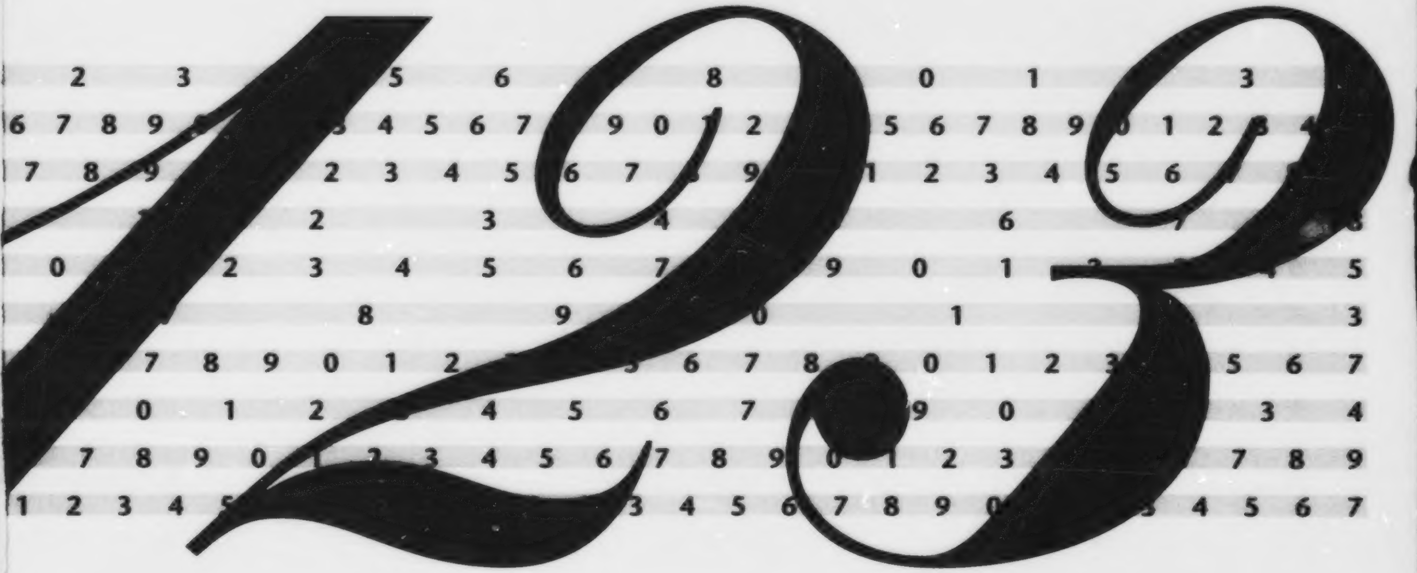
R. J. Danderfer
Executive Director
Division of Vital Statistics

MC/cm

SELECTED VITAL STATISTICS AND HEALTH STATUS INDICATORS

ONE HUNDRED NINETEENTH

Annual Report 1990



Vital
Statistics
PLANNING FOR
TOMORROW

BC Ministry of Health and
Ministry Responsible for Seniors
Division of Vital Statistics

Canadian Cataloguing in Publication Data
Main entry under title:
Selected vital statistics and health status indicators
… annual report. – 119th (1990) -

Annual.
Continues: Vital statistics of the Province of British Columbia, ISSN 0702-9446
Report year ends Dec. 31.
ISSN 1188-3642 = Selected vital statistics and health status indicators … annual report.

1. British Columbia – Statistics, Vital. I. British Columbia. Division of Vital Statistics.

HA747.B7S44 304.6'09711'021 C92-092045-4

Foreword

THE DIVISION OF VITAL STATISTICS continues to move in a direction that emphasizes customer service and support as well as high quality, innovative research and data products.

The Division is pleased to acknowledge the improved service provided by major birthing hospitals in the Province as they now perform the district registrar role in birth registrations. In addition, most funeral homes now have the ability to produce death certificates on behalf of the Division. Both initiatives are operating efficiently and are enhancing service delivery to the public.

The Health Surveillance Registry is currently undergoing revitalization with the objective of becoming a more sophisticated tool for use in health services research and planning. The successful outcome of this redevelopment will be reflected in future annual reports as well as other publications produced by the Division.

The Division's Research and Statistics Branch is producing high quality, state-of-the-art vital statistical information and associated products. One of the Branch's primary objectives is the dissemination of relevant measures of health status at a level that is beneficial to health care researchers, planners and providers alike. In this regard, this year's report provides data on a more detailed geographic basis and employs maps that allow visual comparisons between geographical areas.

As this publication is an "annual" report and in most instances presents information based on one year of data, readers are advised to exercise caution in making any longer term conclusions. This year's report does, however, present data over longer time periods for some selected indicators.

Vital Statistics data generally are of interest to most individuals. Examples of potential uses for vital statistical data are provided throughout this report. It is our intention that readers will find this report both useful and interesting. The content of the annual report is constantly evolving in response to expressed needs. Many features in this year's report are in direct response to reader suggestions. If the information you require is not found in this report, please contact the Research and Statistics Branch of the Division for further assistance.

L. T. Foster
Assistant Deputy Minister
Management Operations

R. J. Danderfer
Director
Division of Vital Statistics

92-02963/

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Introduction

Introduction

The Division of Vital Statistics is responsible for the ascertainment, registration and certification of vital events through the administration of the *Vital Statistics Act, Marriage Act, Name Act*, and Part II of the *Wills Act*.

Statistical information contained in this annual report is provided by the Division for use in government operations, health services planning, health related research and for general public interest. The information, however, does not present personally identifiable data in order to maintain confidentiality.

MAPPING

This year's report presents information by Local Health Areas (LHAs) for the first time. These areas were formulated to provide a **common** basis for geographical analysis of data across the various program areas of the Ministry of Health. LHAs (Figure 1A) generally provide smaller geographical areas than Health Unit (Figure 1B) and Regional Hospital District (Figure 1C) boundaries. LHAs can be aggregated into the larger units. The use of LHAs permits more detailed geographical analysis of population health, while preserving the ability to relate to historical data based on the two major Ministry geographical administrative and management unit boundaries.

Computerized mapping has become a relatively inexpensive method of examining geographic patterns of morbidity. This allows for ready visual comparisons to be made between geographical areas, rather than having to analyse the details of tabular data. Such maps were employed in last year's annual report for the first time and the use of maps has been expanded substantially in this report. The boundary files used to develop the maps originated from the Planning and Statistics Division of the Ministry of Finance and Corporate Relations.

DATA

Live birth, stillbirth, death, and marriage statistics in this report do not include events for British Columbia residents that occurred outside of the Province. Conversely, events occurring in the Province pertaining to non-residents, with the exception of marriages, are not included in this report. Statistics Canada, in its publications, makes adjustments for these inter-provincial data.

Data presented in this report are based on notifications of birth, stillbirth, death and marriage events as reported to the Division of Vital Statistics.

Registration requirements for each type of event are outlined briefly as follows:

Live Births: The *Vital Statistics Act* prescribes the legal requirements for the registration of births. The responsibility for filing the completed registration of birth lies with the parent(s). A Physician's Notice of Birth must also be completed for every birth in the Province where there is a physician in attendance. The Act requires that the registration of the birth be completed within 30 days of the event.

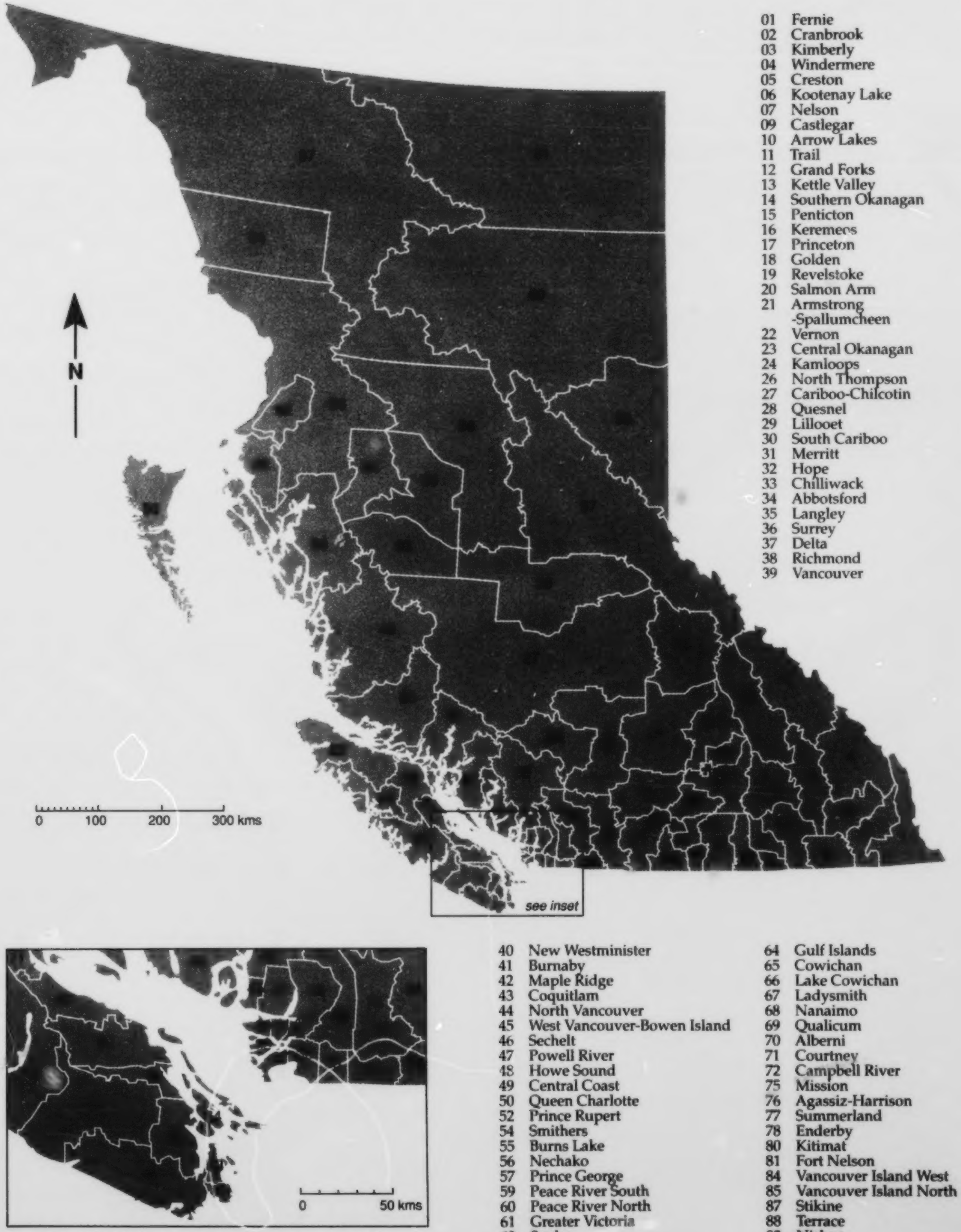
Stillbirths: In the event of a stillbirth, the person who would have been responsible for registering the event, had it been a live birth, completes a registration of stillbirth. In addition, a medical practitioner or coroner is required to complete a medical certificate and deliver it to the funeral director. The funeral director is required to submit these forms to the Division.

Deaths: The physician in attendance at the last illness of a deceased person, or the coroner conducting an inquiry into the death of a person, is required to complete a Medical Certificate of Death. The funeral director obtains the certificate and presents it, along with the completed death registration form, to the Division. The death must be registered before a burial permit can be issued.

Marriage: The *Marriage Act* prescribes the legal requirements that must be observed in connection with the solemnization of marriage, the legal qualifications of individuals to marry, and the authorization of ministers, clergymen and Marriage Commissioners to perform the marriage ceremony. Under this Act, the Division of Vital Statistics is required to license ministers and clergymen of established religious denominations who desire the authority to solemnize marriage. It is also the responsibility of the Division to recommend for appointment Issuers of Marriage Licences throughout the Province and to supervise their work. The actual registration of marriages solemnized in the Province and the issuance of marriage certificates are governed by the *Vital Statistics Act*.

FIGURE 1A

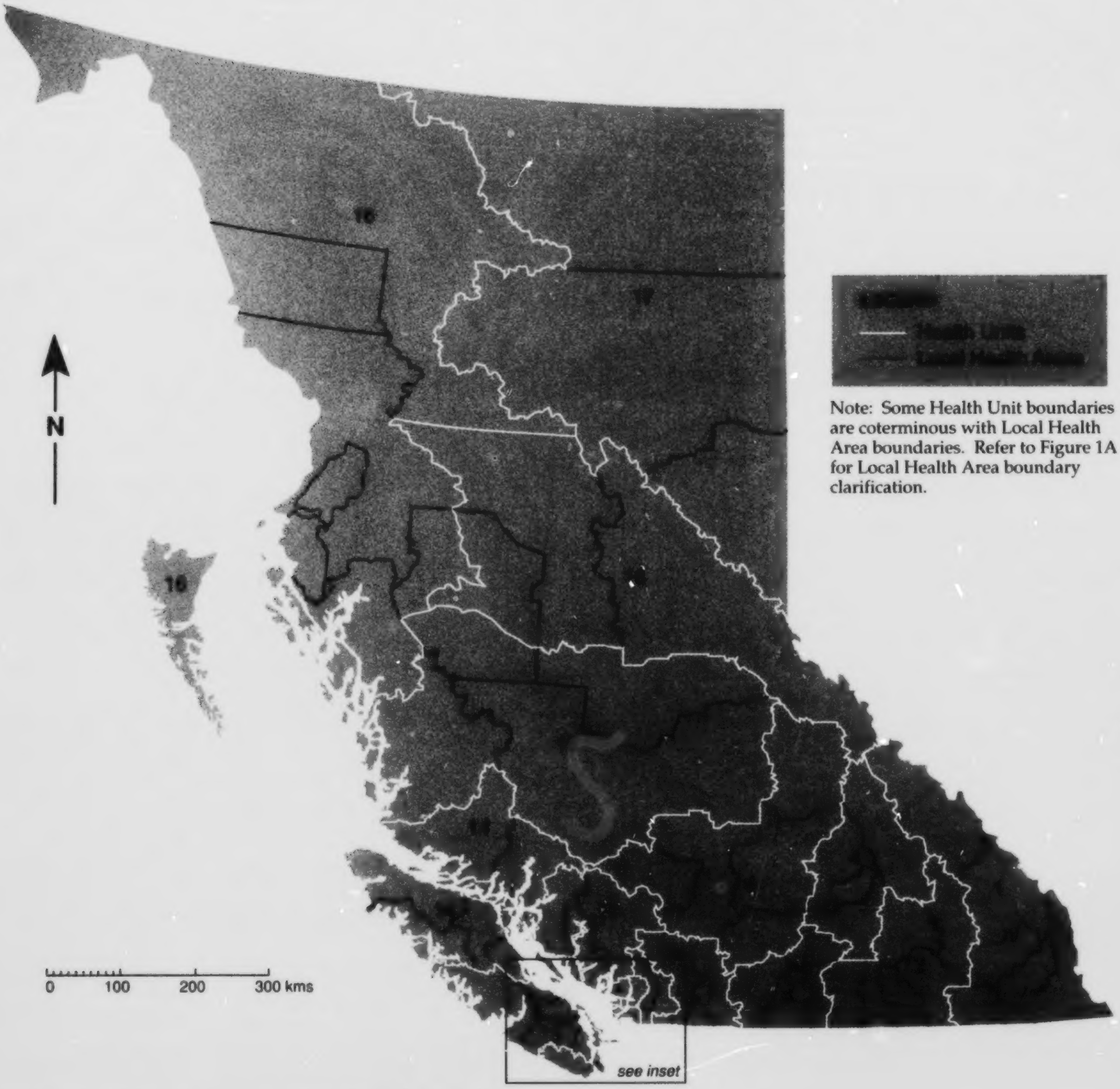
LOCAL HEALTH AREA MAP, BRITISH COLUMBIA



01	Fernie
02	Cranbrook
03	Kimberly
04	Windermere
05	Creston
06	Kootenay Lake
07	Nelson
09	Castlegar
10	Arrow Lakes
11	Trail
12	Grand Forks
13	Kettle Valley
14	Southern Okanagan
15	Penticton
16	Keremeos
17	Princeton
18	Golden
19	Revelstoke
20	Salmon Arm
21	Armstrong -Spallumcheen
22	Vernon
23	Central Okanagan
24	Kamloops
26	North Thompson
27	Cariboo-Chilcotin
28	Quesnel
29	Lillooet
30	South Cariboo
31	Merritt
32	Hope
33	Chilliwack
34	Abbotsford
35	Langley
36	Surrey
37	Delta
38	Richmond
39	Vancouver
40	New Westminister
41	Burnaby
42	Maple Ridge
43	Coquitlam
44	North Vancouver
45	West Vancouver-Bowen Island
46	Sechelt
47	Powell River
48	Howe Sound
49	Central Coast
50	Queen Charlotte
52	Prince Rupert
54	Smithers
55	Burns Lake
56	Nechako
57	Prince George
59	Peace River South
60	Peace River North
61	Greater Victoria
62	Sooke
63	Saanich
64	Gulf Islands
65	Cowichan
66	Lake Cowichan
67	Ladysmith
68	Nanaimo
69	Qualicum
70	Alberni
71	Courtney
72	Campbell River
75	Mission
76	Agassiz-Harrison
77	Summerland
78	Enderby
80	Kitimat
81	Fort Nelson
84	Vancouver Island West
85	Vancouver Island North
87	Stikine
88	Terrace
92	Nishga
93	Eutsuk
94	Telegraph Creek

Note: Local Health Areas are not numbered consecutively.

FIGURE 1B
HEALTH UNIT MAP, BRITISH COLUMBIA


16
17
18
16
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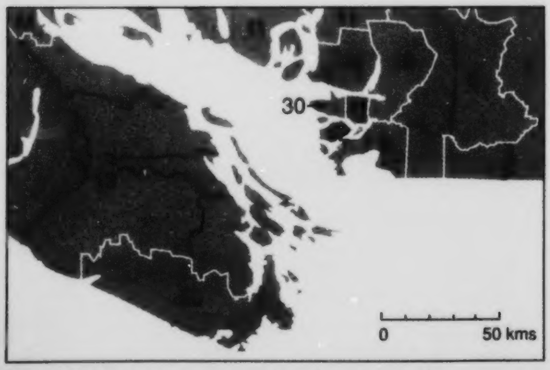
0 100 200 300 kms
see inset
Health Units
Local Health Areas

Note: Some Health Unit boundaries are coterminous with Local Health Area boundaries. Refer to Figure 1A for Local Health Area boundary clarification.

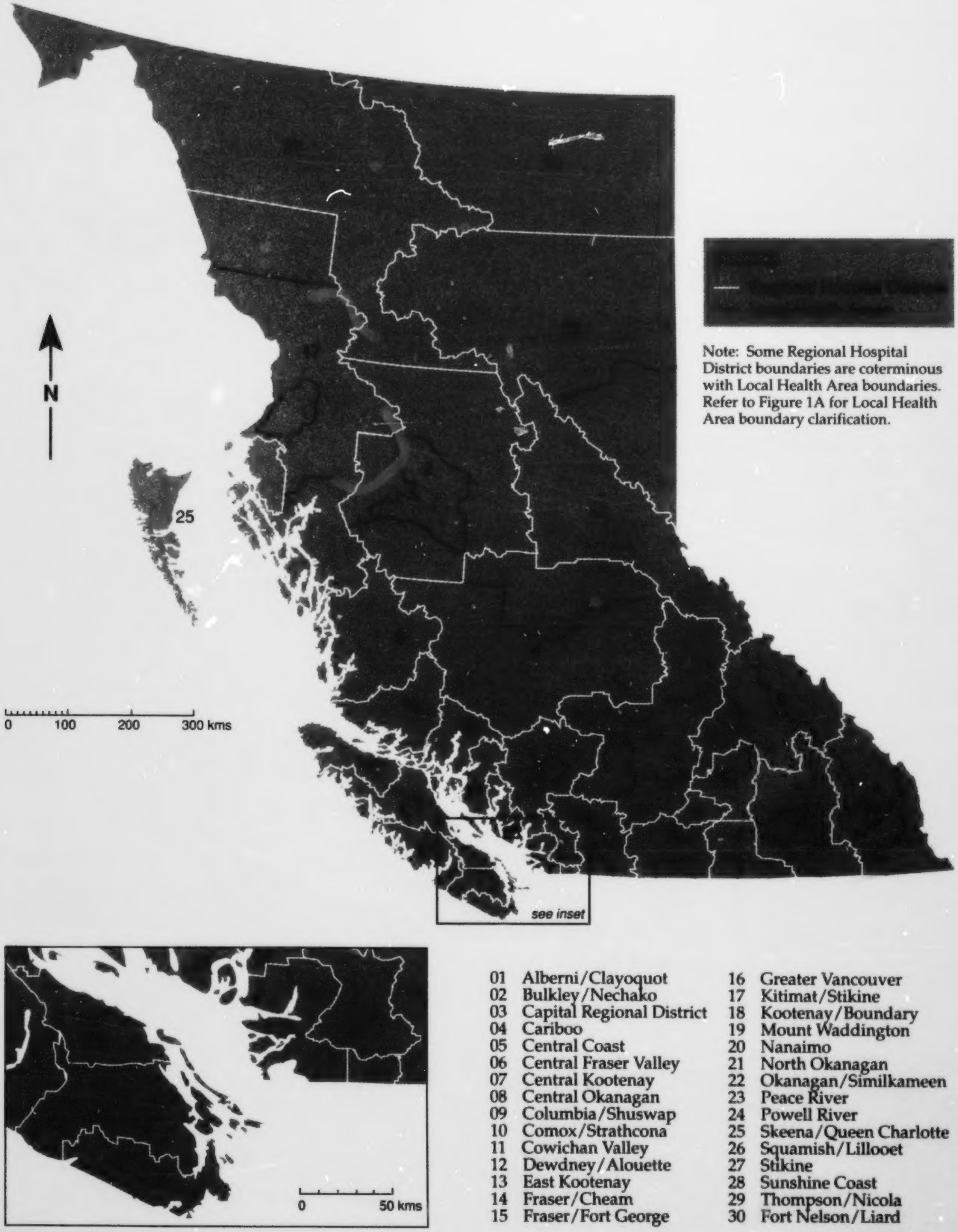


Note: Health Units are not numbered consecutively.

01	East Kootenay
02	Central Kootenay
04	North Okanagan
05	South Okanagan
06	South Central
07	Upper Fraser Valley
08	Central Fraser Valley
09	Boundary
10	Simon Fraser
11	Coast Garibaldi
13	Central Vancouver Island
14	Upper Vancouver Island
15	Cariboo
16	Skeena
17	Peace River
18	Northern Interior
20	Capital Regional District
30	Vancouver
31	Burnaby
32	Richmond
33	North Shore

FIGURE 1C

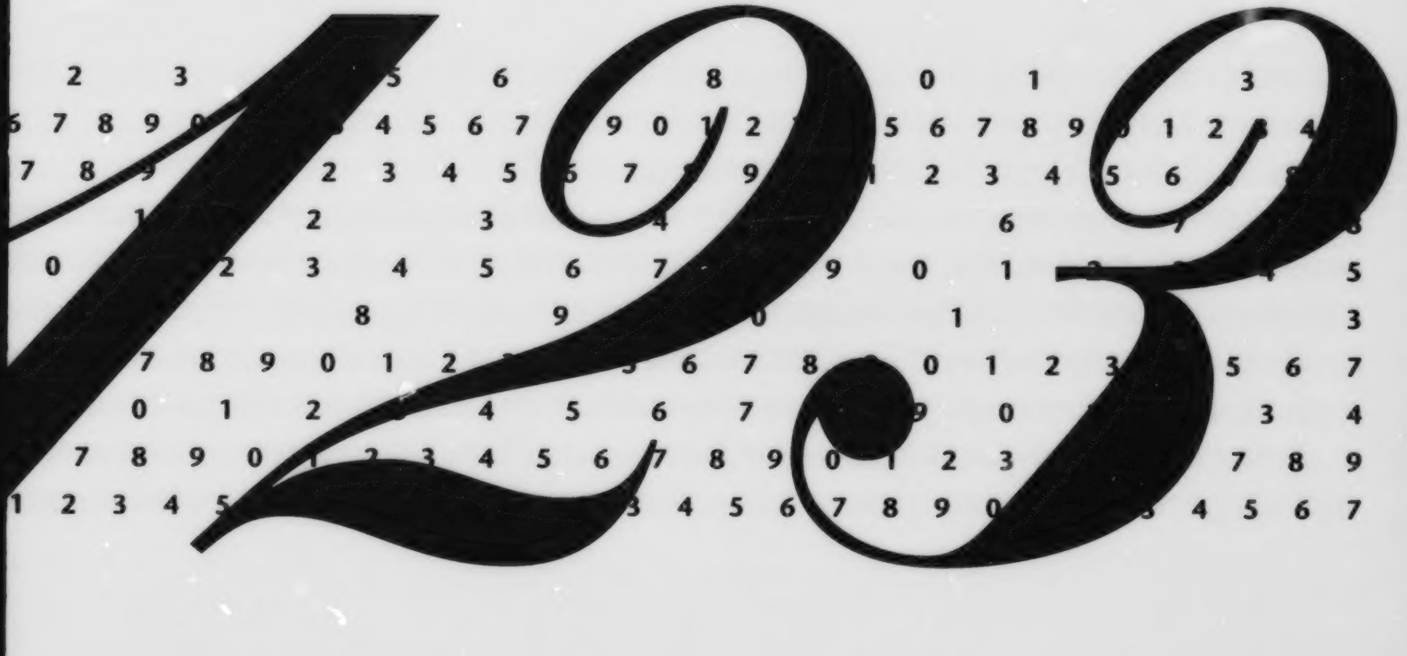
REGIONAL HOSPITAL DISTRICT MAP, BRITISH COLUMBIA



Note: Some Regional Hospital District boundaries are coterminous with Local Health Area boundaries. Refer to Figure 1A for Local Health Area boundary clarification.

01	Alberni/Clayoquot
02	Bulkley/Nechako
03	Capital Regional District
04	Cariboo
05	Central Coast
06	Central Fraser Valley
07	Central Kootenay
08	Central Okanagan
09	Columbia/Shuswap
10	Comox/Strathcona
11	Cowichan Valley
12	Dewdney/Alouette
13	East Kootenay
14	Fraser/Cheam
15	Fraser/Fort George
16	Greater Vancouver
17	Kitimat/Stikine
18	Kootenay/Boundary
19	Mount Waddington
20	Nanaimo
21	North Okanagan
22	Okanagan/Similkameen
23	Peace River
24	Powell River
25	Skeena/Queen Charlotte
26	Squamish/Lillooet
27	Stikine
28	Sunshine Coast
29	Thompson/Nicola
30	Fort Nelson/Liard

Vital Events-related Statistics



Summary

The primary sources of data for the Division of Vital Statistics originate with the registration of births, deaths and marriages which are submitted to the Division by parents, physicians, Coroners, Funeral Directors, clergy and Marriage Commissioners. The information that is collected allows the Division to issue certificates of birth, death and marriage. This information is also used for statistical purposes, which assists federal, provincial and municipal governments, and in particular health service planners, by providing statistical information that may be used for analyzing trends and developing plans for the future. Some summary statistics relating to vital events for 1990 are:

- 45,333 live births occurred in the Province to residents of the Province. This is the highest number of births ever recorded in the Province. Although this represents an increase of 4.2% over 1989, the live birth rate increased only marginally from 14.3 to 14.5 per 1,000 population.
- 23,389 deaths occurred in 1990. This is the highest number of deaths ever recorded. This represents a 2.7% increase over 1989, but the crude death rate remained unchanged at 7.5 per 1,000 population.
- 25,185 marriages were solemnized in the Province, an increase of 0.1%, with the crude rate decreasing from 8.3 to 8.0 per 1,000 population. This is the highest number of marriages ever recorded in the Province.
- 292 stillbirths occurred. This represents a decrease of 6.4% from 1989, with the crude rate declining from 7.1 to 6.4 per 1,000 total births.

DEFINITION OF TERMS

BIRTHS/TOTAL BIRTHS

The number of live births plus stillbirths.

LIVE BIRTH

The complete expulsion or extraction from its mother, irrespective of the duration of the pregnancy, of a product of conception in which, after the expulsion or extraction, there is:

(a) breathing;
(b) beating of the heart:
(c) pulsation of the umbilical cord; or,
(d) unmistakable movement of voluntary muscle, whether or not the umbilical cord has been cut or the placenta attached.

STILLBIRTH

The complete expulsion or extraction from its mother after at least 20 weeks pregnancy, or after attaining a weight of at least 500 grams, of a product of conception in which, after the expulsion or extraction, there is no breathing, beating of the heart, pulsation of the umbilical cord or unmistakable movement of voluntary muscle.

MID-YEAR POPULATION

The estimated population at the midpoint of the year, which represents the average population for the year.

CRUDE RATES

The number of births, deaths or marriages divided by the mid-year population, usually converted to a rate based on 1,000 population. In the case of stillbirths, the number of stillbirths divided by total births, usually converted to a rate based on 1,000 births.

TABLE 1

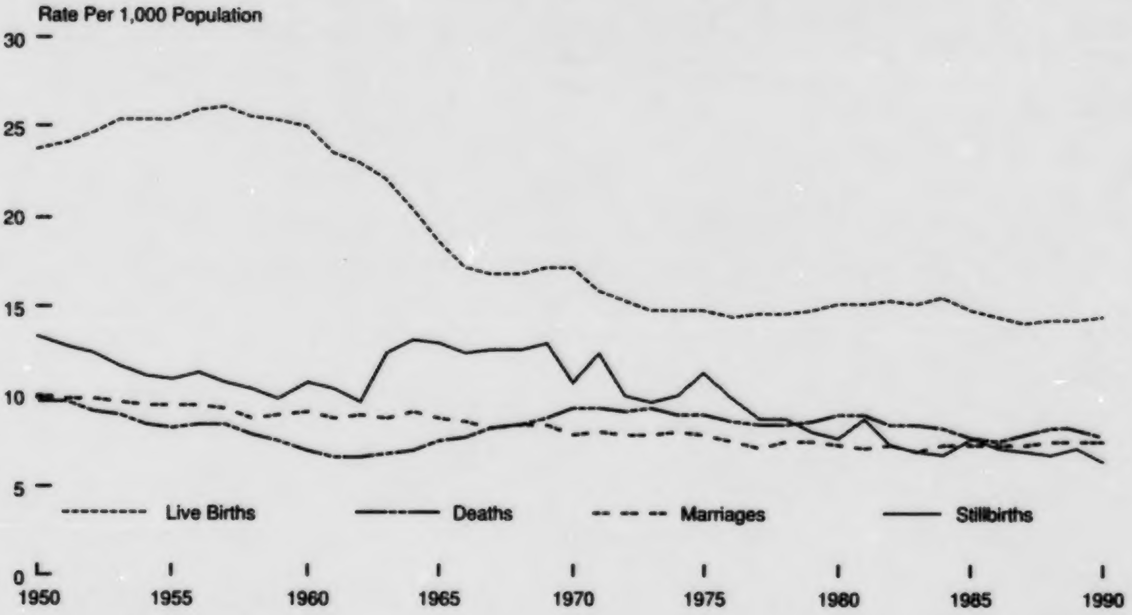
LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS

BRITISH COLUMBIA, 1950-1990

Year	Mid-Year Population	Live Births		Deaths		Marriages		Stillbirths	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	1,137,000	27,116	23.8	11,581	10.2	11,110	9.8	369	13.4
1951	1,165,210	28,077	24.1	11,638	10.0	11,272	9.7	365	12.8
1952	1,205,000	29,827	24.8	12,080	10.0	11,081	9.2	375	12.4
1953	1,248,000	31,746	25.4	12,218	9.8	11,298	9.1	375	11.7
1954	1,295,000	32,946	25.4	12,414	9.6	10,991	8.5	373	11.2
1955	1,342,000	34,138	25.4	12,816	9.5	11,011	8.2	381	11.0
1956	1,398,464	36,241	25.9	13,415	9.6	11,950	8.5	413	11.3
1957	1,482,000	38,744	26.1	13,711	9.3	12,620	8.5	422	10.8
1958	1,538,000	39,577	25.7	13,741	8.9	12,094	7.9	414	10.4
1959	1,567,000	39,971	25.5	14,336	9.1	11,910	7.6	404	10.0
1960	1,602,000	40,116	25.0	14,696	9.2	11,203	7.0	437	10.8
1961	1,629,100	38,591	23.7	14,403	8.8	10,935	6.7	410	10.5
1962	1,660,000	38,128	23.0	14,912	9.0	11,196	6.7	377	9.8
1963	1,699,000	37,478	22.1	15,029	8.8	11,677	6.9	476	12.5
1964	1,745,000	35,897	20.6	16,051	9.2	12,158	7.0	485	13.3
1965	1,797,000	33,669	18.7	15,784	8.8	13,639	7.6	447	13.1
1966	1,873,674	32,502	17.3	16,290	8.7	14,682	7.8	409	12.4
1967	1,945,000	32,899	16.9	16,170	8.3	16,026	8.2	422	12.7
1968	2,003,000	33,687	16.8	16,828	8.4	16,914	8.4	433	12.7
1969	2,060,000	35,383	17.2	17,377	8.4	18,284	8.9	468	13.1
1970	2,128,000	36,861	17.3	17,020	8.0	20,020	9.4	407	10.9
1971	2,184,620	34,852	16.0	17,783	8.1	20,389	9.3	442	12.5
1972	2,241,400	34,563	15.4	18,021	8.0	20,659	9.2	356	10.2
1973	2,302,400	34,352	14.9	18,095	7.9	21,303	9.3	339	9.8
1974	2,375,700	35,450	14.9	19,177	8.1	21,734	9.1	364	10.2
1975	2,433,200	36,281	14.9	19,151	7.9	21,824	9.0	414	11.3
1976	2,466,610	35,848	14.5	18,788	7.6	21,536	8.7	361	10.0
1977	2,493,800	36,691	14.7	18,021	7.2	21,156	8.5	330	8.9
1978	2,530,100	37,231	14.7	19,057	7.5	21,388	8.5	331	8.8
1979	2,571,200	38,432	14.9	19,204	7.5	22,087	8.6	313	8.1
1980	2,640,100	40,104	15.2	19,371	7.3	23,830	9.0	316	7.8
1981	2,744,470	41,679	15.2	19,857	7.2	24,694	9.0	371	8.8
1982	2,787,700	42,942	15.4	20,704	7.4	23,831	8.5	317	7.3
1983	2,813,800	43,047	15.3	19,895	7.1	23,692	8.4	310	7.1
1984	2,847,700	44,040	15.5	20,781	7.3	23,394	8.2	303	6.8
1985	2,870,100	42,747	14.9	21,404	7.5	22,270	7.8	332	7.7
1986	2,889,205	41,812	14.5	21,351	7.4	21,819	7.6	302	7.2
1987	2,925,700	41,595	14.2	21,571	7.4	23,377	8.0	292	7.0
1988	2,984,000	42,732	14.3	22,265	7.5	24,469	8.2	297	6.9
1989	3,047,244	43,525	14.3	22,776	7.5	25,154	8.3	312	7.1
1990	3,130,448	45,333	14.5	23,389	7.5	25,185	8.0	292	6.4

Note: Rates shown are crude rates per 1,000 population.
Stillbirth rates per 1,000 total births.
Population information from Statistics Canada.

FIGURE 2
CRUDE RATES OF LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS
BRITISH COLUMBIA, 1950-1990



Note: Stillbirth rate per 1,000 total births.

NOTES TO TABLE 1/FIGURE 2

- The crude rate for live births gradually increased from 1950, peaking in 1957 followed by a rather sharp decline into the early 1970s and has remained fairly stable since that time.
- The crude death rate declined slowly from 1950 to the mid 1970s and has remained fairly stable since then. The lowest rate recorded, however, was in 1983.
- The crude marriage rate declined slowly from 1950 to the early 1960s, followed by a gradual increase through the early 1970s. Since that time it has declined marginally.
- The crude rate for stillbirths declined from 1950 until the early 1960s when it showed a sharp jump and remained at this higher level until the early 1970s, followed by a generally downward trend. The jump in the rates was attributed in part to changes in the definition of a stillbirth.

DEFINITION OF TERMS

NATURAL POPULATION INCREASE

The component increase in population attributable to the number of live births less deaths. The increase may often be expressed as a rate, such as per 1,000 population.

OUT OF WEDLOCK BIRTHS

Births where the mother of the baby is not legally married to the father of the baby.

MODE OF DELIVERY

- Spontaneous Vertex
  An unassisted (spontaneous) delivery.
- Forceps or Suction
  An assisted delivery employing forceps or vacuum.
- Breech
  A spontaneous or assisted delivery in which the buttocks or feet of the fetus are the first to appear.
- Caesarian
  A delivery involving the surgical incision of the abdomen and uterine walls.

LOW BIRTH WEIGHT

A birth weight of less than 2,500 grams.

ICD9 CODES

International Classification of Diseases Codes, 9th Revision, prescribed by the World Health Organization.

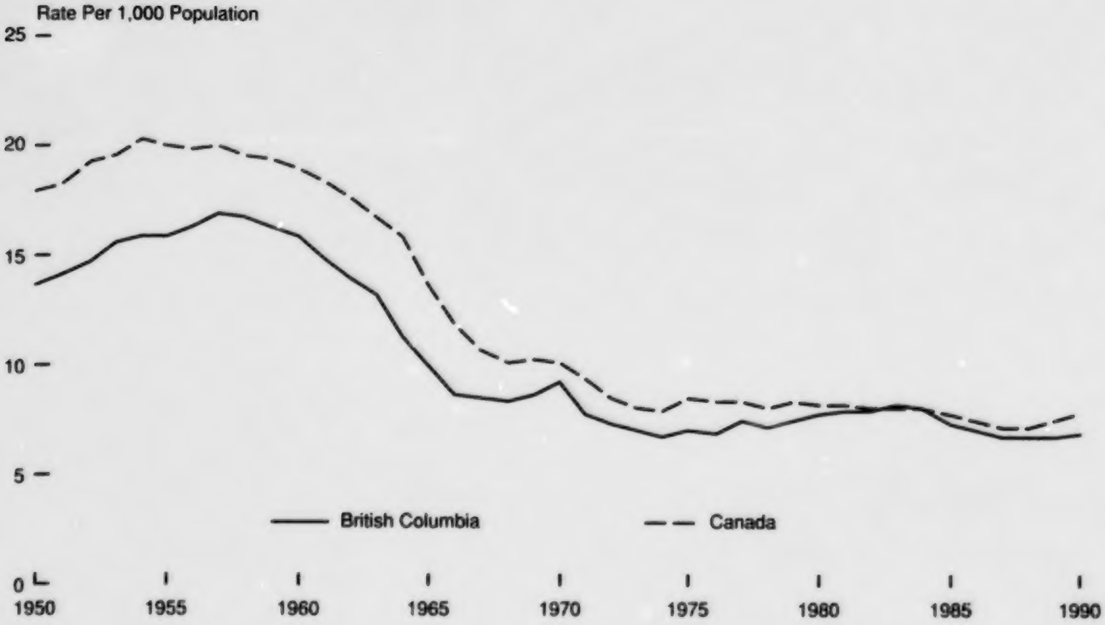
PERINATAL

Pertaining to or occurring in the period shortly before and after birth. Perinatal deaths include stillbirths and early neonatal deaths (age at death less than seven days).

FIGURE 3

TRENDS OF NATURAL INCREASES

BRITISH COLUMBIA AND CANADA, 1950-1990



Note: 1990 rate for Canada was not available.

NOTES TO FIGURE 3

The rate of natural increase in population in both Canada and British Columbia peaked in the mid 1950s, reflecting the "baby boom" common to many western nations following World War II. The rates subsequently declined sharply, levelling off in the early 1970s onward.

- The rate of natural increase for British Columbia has consistently been less than that for Canada as a whole except for 1983 and 1984.
- The difference between the British Columbia and Canada rate has become reduced over time.

TABLE 2

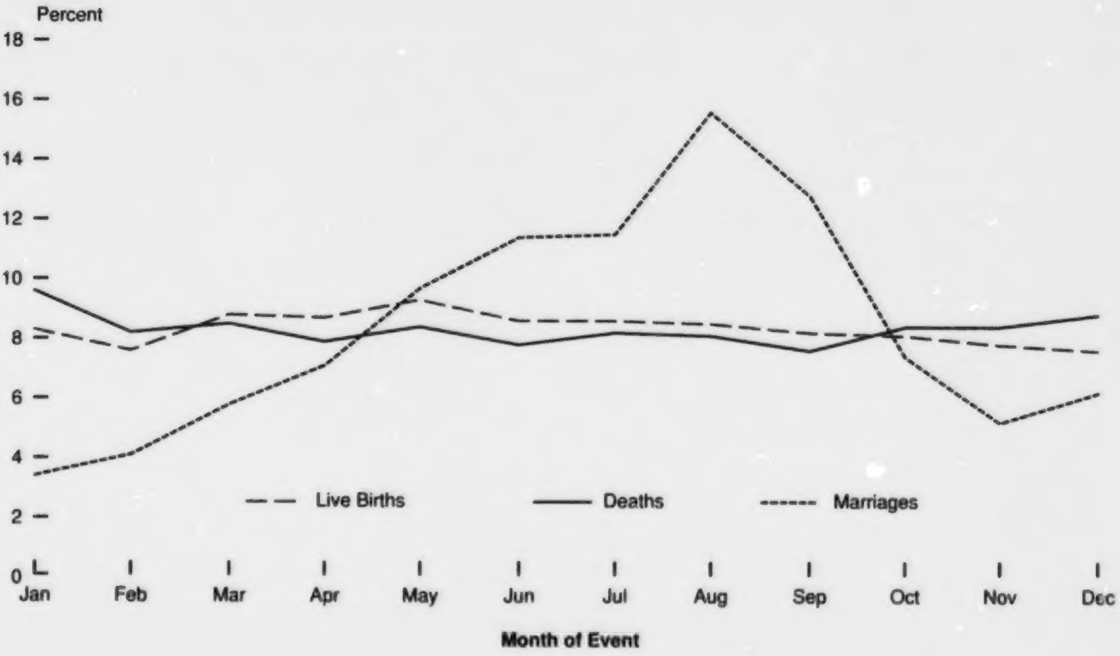
LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH

BRITISH COLUMBIA, 1990

Month	Live Births		Deaths		Marriages		Stillbirths	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
January	3,758	8.3	2,256	9.7	835	3.3	32	11.0
February	3,450	7.6	1,909	8.2	1,043	4.1	21	7.2
March	3,995	8.8	1,990	8.5	1,461	5.8	28	9.6
April	3,933	8.7	1,858	7.9	1,777	7.1	24	8.2
May	4,217	9.3	1,954	8.4	2,431	9.7	24	8.2
June	3,878	8.6	1,820	7.8	2,859	11.4	22	7.5
July	3,893	8.6	1,913	8.2	2,888	11.5	15	5.1
August	3,868	8.5	1,895	8.1	3,917	15.6	27	9.2
September	3,696	8.2	1,783	7.6	3,221	12.8	30	10.3
October	3,650	8.1	1,971	8.4	1,863	7.4	22	7.5
November	3,536	7.8	1,971	8.4	1,319	5.2	30	10.3
December	3,459	7.6	2,069	8.9	1,571	6.2	17	5.8
Total Residents	45,333	100.0	23,389	100.0	25,185	100.0	292	100.0
Non-Residents	333		342		-		2	
TOTAL	**45,666**		**23,731**		**25,185**		**294**	

Note: Based on usual residence, except marriages which are based on event place.
Total percentage may not add up to 100 due to rounding.

FIGURE 4
LIVE BIRTHS, DEATHS AND MARRIAGES BY MONTH
BRITISH COLUMBIA, 1990



NOTES TO TABLE 2/FIGURE 4

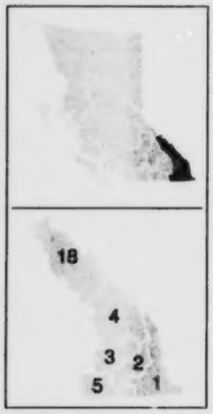
- Marriages tended to exhibit significant seasonal variation, peaking in June, July, August and September.
- Births remained relatively stable throughout the year, although May had the highest, and December and February had the lowest percentage of events, respectively.
- Deaths, while relatively stable throughout the year, showed a definite peak in December and January.

TABLE 3A

STATISTICAL SUMMARIES BY HEALTH UNIT AND LOCAL HEALTH AREA

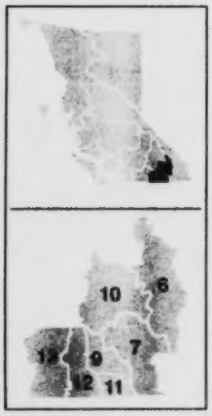
BRITISH COLUMBIA, 1990

01 EAST KOOTENAY



Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
							Population	Deaths	
01 Fernie	M	7,563	112	46		1	31.3	72.3	8.7
	F	6,983	92	25		1	31.4	72.6	9.6
	T	14,546	204	71	79	2	31.3	72.4	9.1
02 Cranbrook	M	9,876	133	64		2	32.8	69.8	7.0
	F	9,911	138	59		-	34.0	75.9	8.0
	T	19,787	271	123	173	2	33.4	72.7	7.5
03 Kimberley	M	3,722	43	44		-	37.2	71.3	(0.3)
	F	3,774	38	38		-	39.4	75.1	0.0
	T	7,496	81	82	61	-	38.3	73.0	(0.1)
04 Windermere	M	3,275	39	17		-	33.7	64.4	6.7
	F	3,087	40	14		-	34.5	60.4	8.4
	T	6,362	79	31	74	-	34.1	62.6	7.5
05 Creston	M	4,969	68	62		2	39.2	72.3	1.2
	F	5,092	55	41		-	42.5	71.8	2.7
	T	10,061	123	103	59	2	40.9	72.1	2.0
18 Golden	M	3,653	49	19		-	31.8	63.9	8.2
	F	3,364	57	15		-	31.4	71.1	12.5
	T	7,017	106	34	76	-	31.6	67.0	10.3
TOTAL	M	33,058	444	252		5	33.9	70.3	5.8
	F	32,211	420	192		1	35.2	72.9	7.1
	T	65,269	864	444	522	6	34.5	71.4	6.4

02 CENTRAL KOOTENAY



Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
							Population	Deaths	
06 Kootenay Lake	M	1,593	21	18		-	39.5	64.6	1.9
	F	1,554	11	7		-	41.3	75.0	2.6
	T	3,147	32	25	24	-	40.4	67.5	2.2
07 Nelson	M	10,240	135	91		-	36.1	74.3	4.3
	F	10,312	111	91		2	38.2	77.5	1.9
	T	20,552	246	182	147	2	37.1	75.9	3.1
09 Castlegar	M	5,704	81	50		-	35.0	66.2	5.4
	F	5,666	58	32		-	36.9	71.3	4.6
	T	11,370	139	82	67	-	35.9	68.2	5.0
10 Arrow Lakes	M	2,129	27	24		-	37.0	67.5	1.4
	F	1,981	39	25		-	40.4	83.0	7.1
	T	4,110	66	49	24	-	38.6	75.4	4.1
11 Trail	M	9,732	113	122		1	36.4	75.5	(0.9)
	F	9,974	124	88		-	38.8	75.2	3.6
	T	19,706	237	210	126	1	37.6	75.4	1.4
12 Grand Forks	M	3,567	49	44		-	38.5	73.0	1.4
	F	3,535	35	44		1	41.9	78.4	(2.5)
	T	7,102	84	88	53	1	40.2	75.7	(0.6)
13 Kettle Valley	M	1,658	18	14		-	36.1	70.6	2.4
	F	1,509	20	12		-	37.2	64.9	5.3
	T	3,167	38	26	11	-	36.6	68.0	3.8
TOTAL	M	34,623	444	363		1	36.4	72.4	2.3
	F	34,531	398	299		3	38.7	76.2	2.9
	T	69,154	842	662	452	4	37.6	74.1	2.6

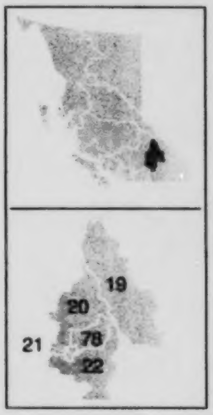
TABLE 3A – *continued*

STATISTICAL SUMMARIES BY HEALTH UNIT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

04 NORTH OKANAGAN

Health Unit/ Local Health Area		Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
19	Revelstoke	M	4,167	68	31		1	32.9	65.2	8.9
		F	3,874	49	20		-	33.9	70.1	7.5
		T	8,041	117	51	66	1	33.4	67.1	8.2
20	Salmon Arm	M	12,355	136	124		-	37.5	69.0	1.0
		F	12,391	122	91		-	40.1	75.8	2.5
		T	24,746	258	215	198	-	38.8	71.9	1.7
21	Armstrong -Spallumcheen	M	3,578	40	31		-	35.0	66.7	2.5
		F	3,624	48	23		-	37.1	77.6	6.9
		T	7,202	88	54	54	-	36.1	71.4	4.7
22	Vernon	M	21,856	321	227		4	35.8	71.4	4.3
		F	22,634	283	175		1	38.0	75.8	4.8
		T	44,490	604	402	361	5	36.9	73.3	4.5
78	Enderby	M	2,491	36	38		1	36.6	65.2	(0.8)
		F	2,406	36	20		1	39.6	72.6	6.7
		T	4,897	72	58	36	2	38.1	67.7	2.9
	TOTAL	M	44,447	601	451		6	36.0	69.5	3.4
		F	44,929	538	329		2	38.2	75.4	4.7
		T	89,376	1,139	780	715	8	37.1	72.0	4.0



05 SOUTH OKANAGAN

Health Unit/ Local Health Area		Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
14	Southern Okanagan	M	6,735	67	89		-	41.5	74.9	(3.3)
		F	6,981	76	60		-	45.0	81.2	2.3
		T	13,716	143	149	98	-	43.3	77.4	(0.4)
15	Penticton	M	15,160	214	189		1	39.4	73.9	1.6
		F	16,649	194	145		-	42.2	75.9	2.9
		T	31,809	408	334	269	1	40.9	74.8	2.3
16	Keremeos	M	1,915	18	23		-	40.5	75.2	(2.6)
		F	1,742	20	20		1	44.3	73.2	0.0
		T	3,657	38	43	13	1	42.3	74.2	(1.4)
17	Princeton	M	2,404	26	23		-	35.4	63.5	1.2
		F	2,299	23	20		-	37.7	69.8	1.3
		T	4,703	49	43	35	-	36.5	66.4	1.3
23	Central Okanagan	M	49,140	661	461		3	37.2	72.1	4.1
		F	52,235	620	339		2	40.2	74.6	5.4
		T	101,375	1,281	800	834	5	38.7	73.2	4.7
77	Summerland	M	4,300	49	69		-	41.3	76.6	(4.7)
		F	4,517	46	52		-	44.9	82.0	(1.3)
		T	8,817	95	121	57	-	43.1	78.9	(2.9)
	TOTAL	M	79,654	1,035	854		4	38.2	73.0	2.3
		F	84,423	979	636		3	41.2	75.9	4.1
		T	164,077	2,014	1,490	1,306	7	39.8	74.3	3.2

23
77
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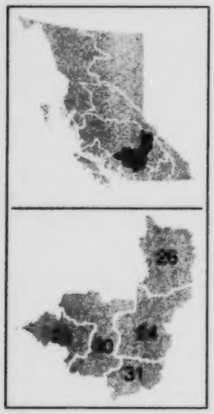
TABLE 3A – *continued*

STATISTICAL SUMMARIES BY HEALTH UNIT AND LOCAL HEALTH AREA

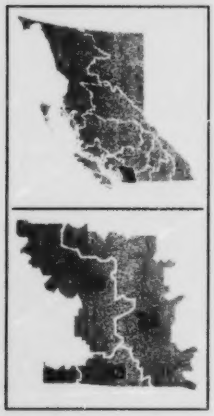
BRITISH COLUMBIA, 1990

06 SOUTH CENTRAL



	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Average Age Deaths	Natural Increase/ (Decrease) Rate/1,000
24	Kamloops	M	39,006	545	262		3	33.3	65.2	7.3
		F	38,987	509	200		2	34.3	72.0	7.9
		T	77,993	1,054	462	648	5	33.8	68.2	7.6
26	North Thompson	M	2,255	32	18		-	32.3	53.1	6.2
		F	2,071	39	8		-	32.3	73.3	15.0
		T	4,326	71	26	27	-	32.3	59.3	10.4
29	Lillooet	M	2,315	43	33		1	32.3	61.5	4.3
		F	2,039	29	9		1	33.7	79.9	9.8
		T	4,354	72	42	25	2	33.0	65.4	6.9
30	South Cariboo	M	3,471	62	36		-	33.5	65.2	7.5
		F	3,114	63	31		1	35.1	68.0	10.3
		T	6,585	125	67	46	1	34.2	66.5	8.8
31	Merritt	M	5,051	78	48		1	32.5	67.1	5.9
		F	4,693	80	29		1	33.4	71.9	10.9
		T	9,744	158	77	81	2	32.9	68.9	8.3
	TOTAL	M	52,098	760	397		5	33.1	64.6	7.0
		F	50,904	720	277		5	34.2	71.8	8.7
		T	103,002	1,480	674	827	10	33.6	67.6	7.8

07 UPPER FRASER VALLEY



	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Average Age Deaths	Natural Increase/ (Decrease) Rate/1,000
32	Hope	M	3,791	66	34		1	34.2	65.7	8.4
		F	3,586	60	20		-	36.0	61.3	11.2
		T	7,377	126	54	48	1	35.1	64.1	9.8
33	Chilliwack	M	25,599	441	227		3	34.9	70.4	8.4
		F	26,402	413	204		3	37.2	73.9	7.9
		T	52,001	854	431	493	6	36.1	72.1	8.1
34	Abbotsford	M	39,992	696	293		1	33.1	72.8	10.1
		F	41,024	630	268		2	35.4	77.5	8.8
		T	81,016	1,326	561	634	3	34.2	75.0	9.4
76	Agassiz-Harrison	M	3,138	42	30		-	35.2	63.9	3.8
		F	2,471	45	12		-	36.0	64.5	13.4
		T	5,609	87	42	77	-	35.6	64.1	8.0
	TOTAL	M	72,520	1,245	584		5	33.9	71.0	9.1
		F	73,483	1,148	504		5	36.1	75.1	8.8
		T	146,003	2,393	1,088	1,252	10	35.0	72.9	8.9

08 CENTRAL FRASER VALLEY

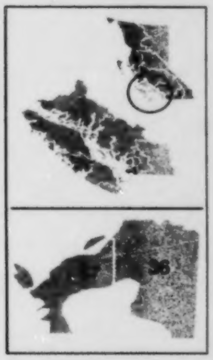
	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Average Age Deaths	Natural Increase/ (Decrease) Rate/1,000
35	Langley	M	41,477	680	315		7	32.3	69.3	8.8
		F	41,846	640	249		8	33.7	73.8	9.3
		T	83,323	1,320	564	674	15	33.0	71.3	9.1
42	Maple Ridge	M	28,931	531	178		4	32.2	66.8	12.2
		F	28,671	515	172		3	33.4	72.0	12.0
		T	57,602	1,046	350	382	7	32.8	69.4	12.1
75	Mission	M	15,173	241	101		2	32.9	67.1	9.2
		F	14,392	204	85		1	34.4	73.0	8.3
		T	29,565	445	186	159	3	33.6	69.8	8.8
	TOTAL	M	85,581	1,452	594		13	32.4	68.2	10.0
		F	84,909	1,359	506		12	33.7	73.1	10.0
		T	170,490	2,811	1,100	1,215	25	33.0	70.5	10.0

TABLE 3A – *continued*

STATISTICAL SUMMARIES BY HEALTH UNIT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
09	**BOUNDARY**									
36	Surrey	M	118,994	2,325	877		21	33.3	68.5	12.2
		F	121,940	2,153	673		14	34.9	74.3	12.1
		T	240,934	4,478	1,550	1,650	35	34.1	71.0	12.2
37	Delta	M	42,458	620	241		5	32.9	66.7	8.9
		F	42,820	612	217		5	33.9	75.8	9.2
		T	85,278	1,232	458	478	10	33.4	71.0	9.1
	TOTAL	M	161,452	2,945	1,118		26	33.2	68.1	11.3
		F	164,760	2,765	890		19	34.6	74.7	11.4
		T	326,212	5,710	2,008	2,128	45	33.9	71.0	11.3



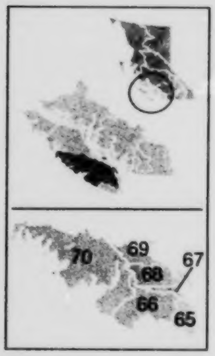
	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
10	**SIMON FRASER**									
40	New Westminster	M	21,318	296	220		3	38.4	68.1	3.6
		F	22,967	277	255		1	41.2	78.0	1.0
		T	44,285	573	475	506	4	39.9	73.4	2.2
43	Coquitlam	M	66,996	1,161	381		7	32.3	68.0	11.6
		F	67,808	1,039	285		13	33.2	70.7	11.1
		T	134,804	2,200	666	799	20	32.8	69.1	11.4
	TOTAL	M	88,314	1,457	601		10	33.8	68.1	9.7
		F	90,775	1,316	540		14	35.3	74.1	8.5
		T	179,089	2,773	1,141	1,305	24	34.5	70.9	9.1

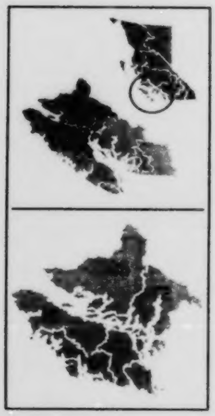
	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
11	**COAST-GARIBALDI**									
46	Sechelt	M	9,047	120	109		3	37.6	69.9	1.2
		F	9,163	126	77		1	40.7	77.7	5.3
		T	18,210	246	186	117	4	39.2	73.2	3.3
47	Powell River	M	9,257	122	95		2	35.5	68.5	2.9
		F	9,104	120	73		-	37.2	73.9	5.2
		T	18,361	242	168	132	2	36.3	70.8	4.0
48	Howe Sound	M	9,302	168	40		1	31.1	60.5	13.8
		F	8,365	167	29		1	31.1	65.5	16.5
		T	17,667	335	69	178	2	31.1	62.6	15.1
	TOTAL	M	27,606	410	244		6	34.7	67.8	6.0
		F	26,632	413	179		2	36.5	74.2	8.8
		T	54,238	823	423	427	8	35.6	70.5	7.4

TABLE 3A – *continued*

STATISTICAL SUMMARIES BY HEALTH UNIT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990





	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
13	**CENTRAL VANCOUVER ISLAND**									
65	Cowichan	M	18,796	304	183		-	35.0	69.6	6.4
		F	19,347	310	131		2	36.6	74.1	9.3
		T	38,143	614	314	331	2	35.8	71.4	7.9
66	Lake Cowichan	M	2,464	39	21		-	34.6	60.8	7.3
		F	2,332	33	13		-	36.0	61.7	8.6
		T	4,796	72	34	19	-	35.3	61.2	7.9
67	Ladysmith	M	6,477	93	80		-	37.1	70.6	2.0
		F	6,666	81	55		-	39.1	74.4	3.9
		T	13,143	174	135	96	-	38.1	72.1	3.0
68	Nanaimo	M	32,553	472	301		2	35.3	70.1	5.3
		F	33,700	467	224		2	37.3	73.7	7.2
		T	66,253	939	525	517	4	36.3	71.6	6.2
69	Qualicum	M	12,167	123	151		2	40.0	68.8	(2.3)
		F	12,683	105	120		-	43.4	76.4	(1.2)
		T	24,850	228	271	203	2	41.7	72.2	(1.7)
70	Alberni	M	15,444	213	96		1	33.6	63.0	7.6
		F	14,854	226	102		2	34.9	68.8	8.3
		T	30,298	439	198	227	3	34.3	66.0	8.0
	TOTAL	M	87,901	1,244	832		5	35.7	68.7	4.7
		F	89,582	1,222	645		6	37.7	73.3	6.4
		T	177,483	2,466	1,477	1,393	11	36.7	70.7	5.6
14	**UPPER VANCOUVER ISLAND**									
71	Courtenay	M	20,953	269	171		1	34.9	67.6	4.7
		F	21,138	287	133		2	36.8	73.0	7.3
		T	42,091	556	304	366	3	35.8	70.0	6.0
72	Campbell River	M	16,826	264	108		2	32.5	63.6	9.3
		F	16,221	232	87		3	32.8	68.5	8.9
		T	33,047	496	195	228	5	32.6	65.8	9.1
84	Vancouver Island West	M	1,905	37	12		-	31.3	52.0	13.1
		F	1,661	33	4		-	27.8	27.9	17.5
		T	3,566	70	16	11	-	29.7	46.0	15.1
85	Vancouver Island North	M	7,454	122	23		-	30.2	49.4	13.3
		F	6,685	129	21		1	28.7	60.8	16.2
		T	14,139	251	44	74	1	29.5	54.9	14.6
	TOTAL	M	47,138	692	314		3	33.2	64.3	8.0
		F	45,705	681	245		6	33.8	69.6	9.5
		T	92,843	1,373	559	679	9	33.5	66.6	8.8
15	**CARIBOO**									
27	Cariboo-Chilcotin	M	18,212	297	120		2	32.0	57.2	9.7
		F	17,449	291	67		1	31.6	64.6	12.8
		T	35,661	588	187	230	3	31.8	59.8	11.2
28	Quesnel	M	11,686	170	77		1	31.5	65.0	8.0
		F	11,338	179	48		-	31.7	66.6	11.6
		T	23,024	349	125	140	1	31.6	65.6	9.7
49	Central Coast	M	1,655	31	13		-	31.4	53.7	10.9
		F	1,529	27	7		-	31.2	53.3	13.1
		T	3,184	58	20	20	-	31.3	53.6	11.9
	TOTAL	M	31,553	498	210		3	31.8	59.8	9.1
		F	30,316	497	122		1	31.6	64.7	12.4
		T	61,869	995	332	390	4	31.7	61.6	10.7

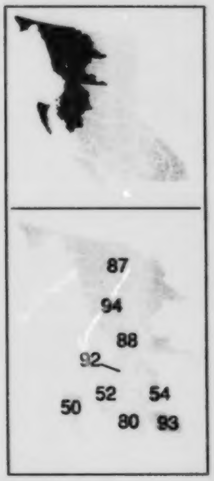
TABLE 3A – *continued*

STATISTICAL SUMMARIES BY HEALTH UNIT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

16 SKEENA

Health Unit/ Local Health Area		Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
50	Queen Charlotte	M	2,863	46	20		-	30.0	53.0	9.1
		F	2,319	41	7		-	30.7	60.7	14.7
		T	5,182	87	27	30	-	30.3	55.0	11.6
52	Prince Rupert	M	9,135	205	56		-	30.9	59.2	16.3
		F	8,647	206	44		1	30.6	57.5	18.7
		T	17,782	411	100	109	1	30.8	58.4	17.5
54	Smithers	M	7,649	171	43		2	30.1	59.9	16.7
		F	6,982	179	22		-	30.4	61.2	22.5
		T	14,631	350	65	102	2	30.2	60.3	19.5
80	Kitimat	M	6,222	98	32		-	31.2	56.2	10.6
		F	5,861	99	13		-	29.8	50.8	14.7
		T	12,083	197	45	55	-	30.5	54.6	12.6
87	Stikine	M	851	11	8		-	29.6	46.4	3.5
		F	715	12	2		-	28.5	52.0	14.0
		T	1,566	23	10	10	-	29.1	47.5	8.3
88	Terrace	M	13,074	248	86		-	29.9	56.5	12.4
		F	12,049	240	36		-	29.6	57.6	16.9
		T	25,123	488	122	184	-	29.8	56.9	14.6
92	Nishga	M	804	13	3		-	26.9	58.3	12.4
		F	691	13	2		1	27.6	77.0	15.9
		T	1,495	26	5	8	1	27.2	65.8	14.0
94	Telegraph Creek	M	433	8	1		-	27.6	62.0	16.2
		F	351	9	1		-	27.6	82.0	22.8
		T	784	17	2	5	-	27.6	72.0	19.1
	TOTAL	M	41,031	800	249		2	30.3	57.1	13.4
		F	37,615	799	127		2	30.0	58.1	17.9
		T	78,646	1,599	376	503	4	30.1	57.4	15.6



Note: Data not presented for LHA 93, Eutsuk, due to no residential population.

17 PEACE RIVER

Health Unit/ Local Health Area		Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
59	Peace River South	M	13,101	258	75		1	31.0	66.1	14.0
		F	12,343	241	43		1	31.1	68.0	16.0
		T	25,444	499	118	200	2	31.0	66.8	15.0
60	Peace River North	M	12,115	227	74		1	30.0	55.7	12.6
		F	11,433	250	59		4	30.0	61.1	16.7
		T	23,548	477	133	167	5	30.0	58.1	14.6
81	Fort Nelson	M	2,415	42	12		-	27.4	39.5	12.4
		F	2,175	51	6		-	27.0	47.8	20.7
		T	4,590	93	18	26	-	27.2	42.3	16.3
	TOTAL	M	27,631	527	161		2	30.2	59.3	13.2
		F	25,951	542	108		5	30.3	63.1	16.7
		T	53,582	1,069	269	393	7	30.2	60.8	14.9

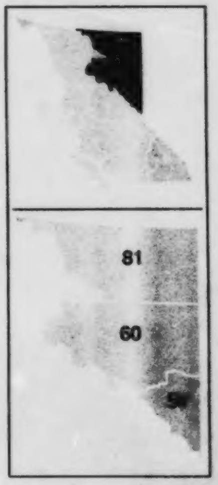


TABLE 3A – *continued*

STATISTICAL SUMMARIES BY HEALTH UNIT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

18 NORTHERN INTERIOR

	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
55	Burns Lake	M	4,002	74	24		1	30.8	55.6	12.5
		F	3,715	52	11		1	30.5	71.6	11.0
		T	7,717	126	35	48	2	30.6	60.7	11.8
56	Nechako	M	7,841	139	70		1	30.0	59.6	8.8
		F	7,219	150	22		-	29.8	69.6	17.7
		T	15,060	289	92	94	1	29.9	62.0	13.1
57	Prince George	M	44,170	798	241		7	30.6	57.0	12.6
		F	42,331	748	154		1	30.3	64.9	14.0
		T	86,501	1,546	395	653	8	30.5	60.1	13.3
	TOTAL	M	56,013	1,011	335		9	30.5	57.5	12.1
		F	53,265	950	187		2	30.2	65.9	14.3
		T	109,278	1,961	522	795	11	30.4	60.5	13.2

20 CAPITAL REGIONAL DISTRICT

	Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
61	Greater Victoria	M	87,926	1,055	1,024		9	39.1	73.4	0.4
		F	99,502	1,115	1,124		1	42.3	80.0	(0.1)
		T	187,428	2,170	2,148	2,126	10	40.8	76.8	0.1
62	Sooke	M	22,823	353	143		-	33.5	65.5	9.2
		F	22,686	317	87		3	34.4	70.9	10.1
		T	45,509	670	230	95	3	34.0	67.6	9.7
63	Saanich	M	23,221	248	199		4	38.1	68.2	2.1
		F	24,206	251	178		3	41.0	78.0	3.0
		T	47,427	499	377	265	7	39.6	72.8	2.6
64	Gulf Islands	M	5,025	48	54		2	42.2	68.1	(1.2)
		F	5,282	63	41		-	45.4	69.5	4.2
		T	10,307	111	95	112	2	43.9	68.7	1.6
	TOTAL	M	138,995	1,704	1,420		15	38.1	71.7	2.0
		F	151,676	1,746	1,430		7	41.0	78.9	2.1
		T	290,671	3,450	2,850	2,598	22	39.6	75.3	2.1

TABLE 3A – *concluded*

STATISTICAL SUMMARIES BY HEALTH UNIT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

Health Unit/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
							Population	Deaths	
30 VANCOUVER									
39 Vancouver	M	226,691	3,016	2,204		25	37.2	68.4	3.6
	F	237,626	2,945	1,959		17	39.5	76.9	4.1
	T	464,317	5,961	4,163	4,530	42	38.4	72.4	3.9
TOTAL	M	226,691	3,016	2,204		25	37.2	68.4	3.6
	F	237,626	2,945	1,959		17	39.5	76.9	4.1
	T	464,317	5,961	4,163	4,530	42	38.4	72.4	3.9
31 BURNABY									
41 Burnaby	M	75,137	1,022	625		6	36.8	71.3	5.3
	F	79,894	977	566		8	38.6	76.5	5.1
	T	155,031	1,999	1,191	1,352	14	37.8	73.7	5.2
TOTAL	M	75,137	1,022	625		6	36.8	71.3	5.3
	F	79,894	977	566		8	38.6	76.5	5.1
	T	155,031	1,999	1,191	1,352	14	37.8	73.7	5.2
32 RICHMOND									
38 Richmond	M	59,060	844	366		4	34.3	68.3	8.1
	F	61,844	810	352		4	35.8	74.9	7.4
	T	120,904	1,654	718	1,191	8	35.1	71.5	7.7
TOTAL	M	59,060	844	366		4	34.3	68.3	8.1
	F	61,844	810	352		4	35.8	74.9	7.4
	T	120,904	1,654	718	1,191	8	35.1	71.5	7.7
33 NORTH SHORE									
44 North Vancouver	M	55,726	842	327		2	35.4	68.2	9.2
	F	59,005	738	353		3	36.6	74.2	6.5
	T	114,731	1,580	680	724	5	36.0	71.3	7.8
45 West Vancouver -Bowen Island	M	20,964	187	181		-	40.5	74.5	0.3
	F	23,219	184	253		1	43.7	78.6	(3.0)
	T	44,183	371	434	488	1	42.2	76.9	(1.4)
TOTAL	M	76,690	1,029	508		2	36.8	70.4	6.8
	F	82,224	922	606		4	38.6	76.1	3.8
	T	158,914	1,951	1,114	1,212	6	37.7	73.5	5.3
BRITISH COLUMBIA									
TOTAL	**M**	**1,547,193**	**23,185**	**12,689**		**157**	**35.0**	**68.6**	**6.8**
	F	**1,583,255**	**22,146**	**10,700**		**128**	**36.8**	**75.0**	**7.2**
	T	**3,130,448**	**45,333**	**23,389**	**25,185**	**285**	**35.9**	**71.5**	**7.0**

Health Units
33
30
31
32
Local Health Areas
45
44
39
41
38

Note: All figures are based on usual residence, except marriages, which are based on event place.
Natural Increase rate per 1,000 population.
( ) in the Natural Increase rate column indicates a natural decrease (fewer deaths than live births).
LHA 93, Eutsuk, not shown due to no residential population.
7 stillbirths of unknown gender are excluded.
Non-residents are excluded.

NOTES TO TABLE 3A

In general, the rate of natural increase in Health Unit populations was associated with average age: greater increases occurred in areas having populations with lower average ages.

- The Health Units with the highest rates of natural increase per 1,000 population, by descending order:

– 16 Skeena	15.6
– 17 Peace River	14.9
– 18 Northern Interior	13.2

- The Health Units with the lowest rates of natural increase per 1,000 population, in ascending order:

– 20 Capital Regional District	2.1
– 02 Central Kootenay	2.6
– 05 South Okanagan	3.2

- Several Local Health Areas showed declines:

– 77 Summerland	2.9
– 69 Qualicum	1.7
– 16 Keremeos	1.4
– 45 West Vancouver-Bowen Island	1.4

The average age of the population and the average age at death showed substantial variation throughout the province.

- The Health Units with the highest average age:

– 05 South Okanagan	39.8
– 20 Capital Regional District	39.6
– 30 Vancouver	38.4

- The Health Units with the lowest average age:

– 16 Skeena	30.1
– 17 Peace River	30.2
– 18 Northern Interior	30.4

- The Health Units with the highest average age at death:

– 20 Capital Regional District	75.3
– 05 South Okanagan	74.3
– 02 Central Kootenay	74.1

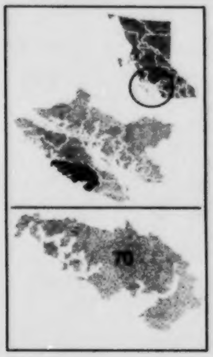
- The Health Units with the lowest average age at death:

– 16 Skeena	57.4
– 18 Northern Interior	60.5
– 17 Peace River	60.8

TABLE 3B
STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA
BRITISH COLUMBIA, 1990

01 ALBERNI-CLAYOQUOT

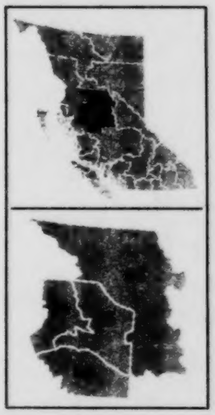
Regional Hospital District/ Local Health Area		Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
70	Alberni	M	15,444	213	96		1	33.6	63.0	7.6
		F	14,854	226	102		2	34.9	68.8	8.3
		T	30,298	439	198	227	3	34.3	66.0	8.0
	TOTAL	M	15,444	213	96		1	33.6	63.0	7.6
		F	14,854	226	102		2	34.9	68.8	8.3
		T	30,298	439	198	227	3	34.3	66.0	8.0



02 BULKLEY-NECHAKO

Regional Hospital District/ Local Health Area		Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
54	Smithers	M	7,649	171	43		2	30.1	59.9	16.7
		F	6,982	179	22		-	30.4	61.2	22.5
		T	14,631	350	65	102	2	30.2	60.3	19.5
55	Burns Lake	M	4,002	74	24		1	30.8	55.6	12.5
		F	3,715	52	11		1	30.5	71.6	11.0
		T	7,717	126	35	48	2	30.6	60.7	11.8
56	Nechako	M	7,841	139	70		1	30.0	59.6	8.8
		F	7,219	150	22		-	29.8	69.6	17.7
		T	15,060	289	92	94	1	29.9	62.0	13.1
	TOTAL	M	19,492	384	137		4	30.2	59.0	12.7
		F	17,916	381	55		1	30.2	66.6	18.2
		T	37,408	765	192	244	5	30.2	61.2	15.3

Note: Data not presented for LHA 93, Eutsuk, due to no residential population.



03 CAPITAL REGIONAL DISTRICT

Regional Hospital District/ Local Health Area		Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
61	Greater Victoria	M	87,926	1,055	1,024		9	39.1	73.4	0.4
		F	99,502	1,115	1,124		1	42.3	80.0	(0.1)
		T	187,428	2,170	2,148	2,126	10	40.8	76.8	0.1
62	Sooke	M	22,823	353	143		-	33.5	65.5	9.2
		F	22,686	317	87		3	34.4	70.9	10.1
		T	45,509	670	230	95	3	34.0	67.6	9.7
63	Saanich	M	23,221	248	199		4	38.1	68.2	2.1
		F	24,206	251	178		3	41.0	78.0	3.0
		T	47,427	499	377	265	7	39.6	72.8	2.6
64	Gulf Islands	M	5,025	48	54		2	42.2	68.1	(1.2)
		F	5,282	63	41		-	45.4	69.5	4.2
		T	10,307	111	95	112	2	43.9	68.7	1.6
	TOTAL	M	138,995	1,704	1,420		15	38.1	71.7	2.0
		F	151,676	1,746	1,430		7	41.0	78.9	2.1
		T	290,671	3,450	2,850	2,598	22	39.6	75.3	2.1

TABLE 3B – *continued*

STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
04	**CARIBOO**									
27	Cariboo-Chilcotin	M	18,212	297	120		2	32.0	57.2	9.7
		F	17,449	291	67		1	31.6	64.6	12.8
		T	35,661	588	187	230	3	31.8	59.8	11.2
28	Quesnel	M	11,686	170	77		1	31.5	65.0	8.0
		F	11,338	179	48		-	31.7	66.6	11.6
		T	23,024	349	125	140	1	31.6	65.6	9.7
	TOTAL	M	29,898	467	197		3	31.8	60.2	9.0
		F	28,787	470	115		1	31.6	65.4	12.3
		T	58,685	937	312	370	4	31.7	62.1	10.7
05	**CENTRAL COAST**									
49	Central Coast	M	1,655	31	13		-	31.4	53.7	10.9
		F	1,529	27	7		-	31.2	53.3	13.1
		T	3,184	58	20	20	-	31.3	53.6	11.9
	TOTAL	M	1,655	31	13		-	31.4	53.7	10.9
		F	1,529	27	7		-	31.2	53.3	13.1
		T	3,184	58	20	20	-	31.3	53.6	11.9
06	**CENTRAL FRASER VALLEY**									
34	Abbotsford	M	39,992	696	293		1	33.1	72.8	10.1
		F	41,024	630	268		2	35.4	77.5	8.8
		T	81,016	1,326	561	634	3	34.2	75.0	9.4
	TOTAL	M	39,992	696	293		1	33.1	72.8	10.1
		F	41,024	630	268		2	35.4	77.5	8.8
		T	81,016	1,326	561	634	3	34.2	75.0	9.4

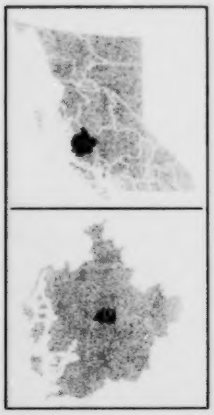


TABLE 3B – *continued*

STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

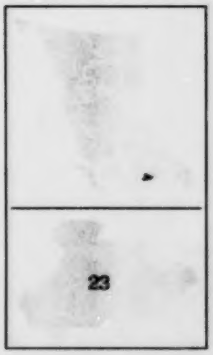
BRITISH COLUMBIA, 1990

07 CENTRAL KOOTENAY

	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
05	Creston	M	4,969	68	62		2	39.2	72.3	1.2
		F	5,092	55	41		-	42.5	71.8	2.7
		T	10,061	123	103	59	2	40.9	72.1	2.0
06	Kootenay Lake	M	1,593	21	18		-	39.5	64.6	1.9
		F	1,554	11	7		-	41.3	75.0	2.6
		T	3,147	32	25	24	-	40.4	67.5	2.2
07	Nelson	M	10,240	135	91		-	36.1	74.3	4.3
		F	10,312	111	91		2	38.2	77.5	1.9
		T	20,552	246	182	147	2	37.1	75.9	3.1
09	Castlegar	M	5,704	81	50		-	35.0	66.2	5.4
		F	5,666	58	32		-	36.9	71.3	4.6
		T	11,370	139	82	67	-	35.9	68.2	5.0
10	Arrow Lakes	M	2,129	27	24		-	37.0	67.5	1.4
		F	1,981	39	25		-	40.4	83.0	7.1
		T	4,110	66	49	24	-	38.6	75.4	4.1
	TOTAL	M	24,635	332	245		2	36.7	70.8	3.5
		F	24,605	274	196		2	39.1	75.9	3.2
		T	49,240	606	441	321	4	37.9	73.1	3.4

08 CENTRAL OKANAGAN

	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
23	Central Okanagan	M	49,140	661	461		3	37.2	72.1	4.1
		F	52,235	620	339		2	40.2	74.6	5.4
		T	101,375	1,281	800	834	5	38.7	73.2	4.7
	TOTAL	M	49,140	661	461		3	37.2	72.1	4.1
		F	52,235	620	339		2	40.2	74.6	5.4
		T	101,375	1,281	800	834	5	38.7	73.2	4.7



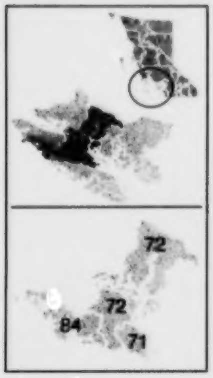
09 COLUMBIA-SHUSWAP

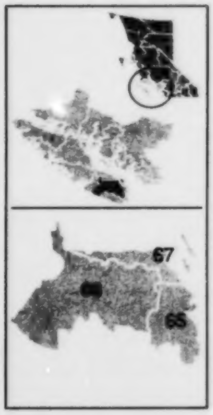
	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
18	Golden	M	3,653	49	19		-	31.8	63.9	8.2
		F	3,364	57	15		-	31.4	71.1	12.5
		T	7,017	106	34	76	-	31.6	67.0	10.3
19	Revelstoke	M	4,167	68	31		1	32.9	65.2	8.9
		F	3,874	49	20		-	33.9	70.1	7.5
		T	8,041	117	51	66	1	33.4	67.1	8.2
20	Salmon Arm	M	12,355	136	124		-	37.5	69.0	1.0
		F	12,391	122	91		-	40.1	75.8	2.5
		T	24,746	258	215	198	-	38.8	71.9	1.7
	TOTAL	M	20,175	253	174		1	35.5	67.7	3.9
		F	19,629	228	126		-	37.4	74.4	5.2
		T	39,804	481	300	340	1	36.4	70.5	4.5

TABLE 3B – *continued*

STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990





Regional Hospital District/ Local Health Area		Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
10	**COMOX-STRATHCONA**									
71	Courtenay	M	20,953	269	171		1	34.9	67.6	4.7
		F	21,138	287	133		2	36.8	73.0	7.3
		T	42,091	556	304	366	3	35.8	70.0	6.0
72	Campbell River	M	16,826	264	108		2	32.5	63.6	9.3
		F	16,221	232	87		3	32.8	68.5	8.9
		T	33,047	496	195	228	5	32.6	65.8	9.1
84	Vancouver Island West	M	1,905	37	12		-	31.3	52.0	13.1
		F	1,661	33	4		-	27.8	27.9	17.5
		T	3,566	70	16	11	-	29.7	46.0	15.1
	TOTAL	M	39,684	570	291		3	33.7	65.5	7.0
		F	39,020	552	224		5	34.7	70.4	8.4
		T	78,704	1,122	515	605	8	34.2	67.6	7.7
11	**COWICHAN VALLEY**									
65	Cowichan	M	18,796	304	183		-	35.0	69.6	6.4
		F	19,347	310	131		2	36.6	74.1	9.3
		T	38,143	614	314	331	2	35.8	71.4	7.9
66	Lake Cowichan	M	2,464	39	21		-	34.6	60.8	7.3
		F	2,332	33	13		-	36.0	61.7	8.6
		T	4,796	72	34	19	-	35.3	61.2	7.9
67	Ladysmith	M	6,477	93	80		-	37.1	70.6	2.0
		F	6,666	81	55		-	39.1	74.4	3.9
		T	13,143	174	135	96	-	38.1	72.1	3.0
	TOTAL	M	27,737	436	284		-	35.5	69.2	5.5
		F	28,345	424	199		2	37.2	73.4	7.9
		T	56,082	860	483	446	2	36.3	70.9	6.7
12	**DEWDNEY-ALOUETTE**									
42	Maple Ridge	M	28,931	531	178		4	32.2	66.8	12.2
		F	28,671	515	172		3	33.4	72.0	12.0
		T	57,602	1,046	350	382	7	32.8	69.4	12.1
75	Mission	M	15,173	241	101		2	32.9	67.1	9.2
		F	14,392	204	85		1	34.4	73.0	8.3
		T	29,565	445	186	159	3	33.6	69.8	8.8
	TOTAL	M	44,104	772	279		6	32.5	66.9	11.2
		F	43,063	719	257		4	33.7	72.3	10.7
		T	87,167	1,491	536	541	10	33.1	69.5	11.0

TABLE 3B – *continued*

STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
13	**EAST KOOTENAY**									
01	Fernie	M	7,563	112	46		1	31.3	72.3	8.7
		F	6,983	92	25		1	31.4	72.6	9.6
		T	14,546	204	71	79	2	31.3	72.4	9.1
02	Cranbrook	M	9,876	133	64		2	32.8	69.8	7.0
		F	9,911	138	59		-	34.0	75.9	8.0
		T	19,787	271	123	173	2	33.4	72.7	7.5
03	Kimberley	M	3,722	43	44		-	37.2	71.3	(0.3)
		F	3,774	38	38		-	39.4	75.1	0.0
		T	7,496	81	82	61	-	38.3	73.0	(0.1)
04	Windermere	M	3,275	39	17		-	33.7	64.4	6.7
		F	3,087	40	14		-	34.5	60.4	8.4
		T	6,362	79	31	74	-	34.1	62.6	7.5
	TOTAL	M	24,436	327	171		3	33.1	70.3	6.4
		F	23,755	308	136		1	34.2	73.5	7.2
		T	48,191	635	307	387	4	33.6	71.7	6.8
14	**FRASER-CHEAM**									
32	Hope	M	3,791	66	34		1	34.2	65.7	8.4
		F	3,586	60	20		-	36.0	61.3	11.2
		T	7,377	126	54	48	1	35.1	64.1	9.8
33	Chilliwack	M	25,599	441	227		3	34.9	70.4	8.4
		F	26,402	413	204		3	37.2	73.9	7.9
		T	52,001	854	431	493	6	36.1	72.1	8.1
76	Agassiz-Harrison	M	3,138	42	30		-	35.2	63.9	3.8
		F	2,471	45	12		-	36.0	64.5	13.4
		T	5,609	87	42	77	-	35.6	64.1	8.0
	TOTAL	M	32,528	549	291		4	34.8	69.2	7.9
		F	32,459	518	236		3	37.0	72.3	8.7
		T	64,987	1,067	527	618	7	35.9	70.6	8.3
15	**FRASER-FORT GEORGE**									
57	Prince George	M	44,170	798	241		7	30.6	57.0	12.6
		F	42,331	748	154		1	30.3	64.9	14.0
		T	86,501	1,546	395	653	8	30.5	60.1	13.3
	TOTAL	M	44,170	798	241		7	30.6	57.0	12.6
		F	42,331	748	154		1	30.3	64.9	14.0
		T	86,501	1,546	395	653	8	30.5	60.1	13.3

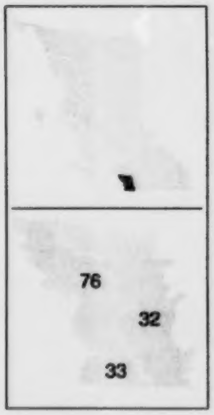
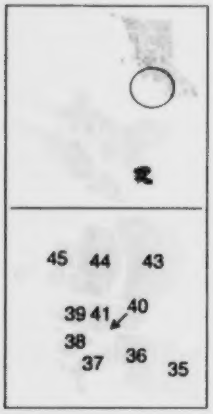
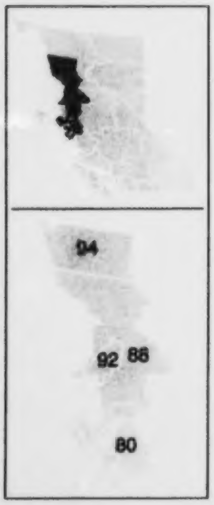


TABLE 3B – *continued*
STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA
BRITISH COLUMBIA, 1990





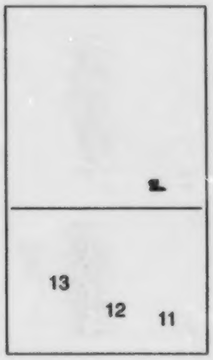
	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
16	**GREATER VANCOUVER**									
35	Langley	M	41,477	680	315		7	32.3	69.3	8.8
		F	41,846	640	249		8	33.7	73.8	9.3
		T	83,323	1,320	564	674	15	33.0	71.3	9.1
36	Surrey	M	118,994	2,325	877		21	33.3	68.5	12.2
		F	121,940	2,153	673		14	34.9	74.3	12.1
		T	240,934	4,478	1,550	1,650	35	34.1	71.0	12.2
37	Delta	M	42,458	620	241		5	32.9	66.7	8.9
		F	42,820	612	217		5	33.9	75.8	9.2
		T	85,278	1,232	458	478	10	33.4	71.0	9.1
38	Richmond	M	59,060	844	366		4	34.3	68.3	8.1
		F	61,844	810	352		4	35.8	74.9	7.4
		T	120,904	1,654	718	1,191	8	35.1	71.5	7.7
39	Vancouver	M	226,691	3,016	2,204		25	37.2	68.4	3.6
		F	237,626	2,945	1,959		17	39.5	76.9	4.1
		T	464,317	5,961	4,163	4,530	42	38.4	72.4	3.9
40	New Westminster	M	21,318	296	220		3	38.4	68.1	3.6
		F	22,967	277	255		1	41.2	78.0	1.0
		T	44,285	573	475	506	4	39.9	73.4	2.2
41	Burnaby	M	75,137	1,022	625		6	36.8	71.3	5.3
		F	79,894	977	566		8	38.6	76.5	5.1
		T	155,031	1,999	1,191	1,352	14	37.8	73.7	5.2
43	Coquitlam	M	66,996	1,161	381		7	32.3	68.0	11.6
		F	67,808	1,039	285		13	33.2	70.7	11.1
		T	134,804	2,200	666	799	20	32.8	69.1	11.4
44	North Vancouver	M	55,726	842	327		2	35.4	68.2	9.2
		F	59,005	738	353		3	36.6	74.2	6.5
		T	114,731	1,580	680	724	5	36.0	71.3	7.8
45	West Vancouver -Bowen Island	M	20,964	187	181		-	40.5	74.5	0.3
		F	23,219	184	253		1	43.7	78.6	(3.0)
		T	44,183	371	434	488	1	42.2	76.9	(1.4)
	TOTAL	M	728,821	10,993	5,737		80	35.3	68.9	7.2
		F	758,969	10,375	5,162		74	37.1	75.8	6.9
		T	1,487,790	21,368	10,899	12,392	154	36.2	72.1	7.0
17	**KITIMAT-STIKINE**									
80	Kitimat	M	6,222	98	32		-	31.2	56.2	10.6
		F	5,861	99	13		-	29.8	50.8	14.7
		T	12,083	197	45	55	-	30.5	54.6	12.6
88	Terrace	M	13,074	248	86		-	29.9	56.5	12.4
		F	12,049	240	36		-	29.6	57.6	16.9
		T	25,123	488	122	184	-	29.8	56.9	14.6
92	Nishga	M	804	13	3		-	26.9	58.3	12.4
		F	691	13	2		1	27.6	77.0	15.9
		T	1,495	26	5	8	1	27.2	65.8	14.0
94	Telegraph Creek	M	433	8	1		-	27.6	62.0	16.2
		F	351	9	1		-	27.6	82.0	22.8
		T	784	17	2	5	-	27.6	72.0	19.1
	TOTAL	M	20,533	367	122		-	30.1	56.5	11.9
		F	18,952	361	52		1	29.6	57.1	16.3
		T	39,485	728	174	252	1	29.9	56.7	14.0

TABLE 3B – *continued*

STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
							Population	Deaths	
18 KOOTENAY-BOUNDARY									
11 Trail	M	9,732	113	122		1	36.4	75.5	(0.9)
	F	9,974	124	88		-	38.8	75.2	3.6
	T	19,706	237	210	126	1	37.6	75.4	1.4
12 Grand Forks	M	3,567	49	44		-	38.5	73.0	1.4
	F	3,535	35	44		1	41.9	78.4	(2.5)
	T	7,102	84	88	53	1	40.2	75.7	(0.6)
13 Kettle Valley	M	1,658	18	14		-	36.1	70.6	2.4
	F	1,509	20	12		-	37.2	64.9	5.3
	T	3,167	38	26	11	-	36.6	68.0	3.8
TOTAL	M	14,957	180	180		1	36.9	74.6	0.0
	F	15,018	179	144		1	39.3	75.3	2.3
	T	29,975	359	324	190	2	38.1	74.9	1.2
19 MOUNT WADDINGTON									
85 Vancouver Island North	M	7,454	122	23		-	30.2	49.4	13.3
	F	6,685	129	21		1	28.7	60.8	16.2
	T	14,139	251	44	74	1	29.5	54.9	14.6
TOTAL	M	7,454	122	23		-	30.2	49.4	13.3
	F	6,685	129	21		1	28.7	60.8	16.2
	T	14,139	251	44	74	1	29.5	54.9	14.6
20 NANAIMO									
68 Nanaimo	M	32,553	472	301		2	35.3	70.1	5.3
	F	33,700	467	224		2	37.3	73.7	7.2
	T	66,253	939	525	517	4	36.3	71.6	6.2
69 Qualicum	M	12,167	123	151		2	40.0	68.8	(2.3)
	F	12,683	105	120		-	43.4	76.4	(1.2)
	T	24,850	228	271	203	2	41.7	72.2	(1.7)
TOTAL	M	44,720	595	452		4	36.5	69.7	3.2
	F	46,383	572	344		2	39.0	74.7	4.9
	T	91,103	1,167	796	720	6	37.8	71.8	4.1



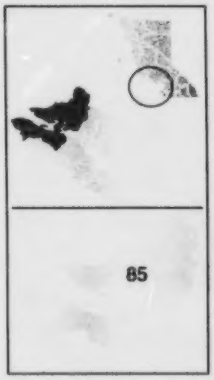


TABLE 3B – *continued*

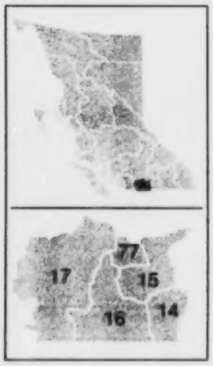
STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

21 NORTH OKANAGAN

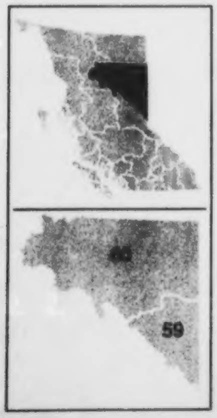
	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
21	Armstrong -Spallumcheen	M	3,578	40	31		-	35.0	66.7	2.5
		F	3,624	48	23		-	37.1	77.6	6.9
		T	7,202	88	54	54	-	36.1	71.4	4.7
22	Vernon	M	21,856	321	227		4	35.8	71.4	4.3
		F	22,634	283	175		1	38.0	75.8	4.8
		T	44,490	604	402	361	5	36.9	73.3	4.5
78	Enderby	M	2,491	36	38		1	36.6	65.2	(0.8)
		F	2,406	36	20		1	39.6	72.6	6.7
		T	4,897	72	58	36	2	38.1	67.7	2.9
	TOTAL	M	27,925	397	296		5	35.7	70.1	3.6
		F	28,664	367	218		2	38.0	75.7	5.2
		T	56,589	764	514	451	7	36.9	72.5	4.4

22 OKANAGAN-SIMILKAMEEN



	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Average Age Deaths	Natural Increase/ (Decrease) Rate/1,000
14	Southern Okanagan	M	6,735	67	89		-	41.5	74.9	(3.3)
		F	6,981	76	60		-	45.0	81.2	2.3
		T	13,716	143	149	98	-	43.3	77.4	(0.4)
15	Penticton	M	15,160	214	189		1	39.4	73.9	1.6
		F	16,649	194	145		-	42.2	75.9	2.9
		T	31,809	408	334	269	1	40.9	74.8	2.3
16	Keremeos	M	1,915	18	23		-	40.5	75.2	(2.6)
		F	1,742	20	20		1	44.3	73.2	0.0
		T	3,657	38	43	13	1	42.3	74.2	(1.4)
17	Princeton	M	2,404	26	23		-	35.4	63.5	1.2
		F	2,299	23	20		-	37.7	69.8	1.3
		T	4,703	49	43	35	-	36.5	66.4	1.3
77	Summerland	M	4,300	49	69		-	41.3	76.6	(4.7)
		F	4,517	46	52		-	44.9	82.0	(1.3)
		T	8,817	95	121	57	-	43.1	78.9	(2.9)
	TOTAL	M	30,514	374	393		1	39.9	74.0	(0.6)
		F	32,188	359	297		1	43.0	77.4	1.9
		T	62,702	733	690	472	2	41.5	75.5	0.7

23 PEACE RIVER



	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Average Age Deaths	Natural Increase/ (Decrease) Rate/1,000
59	Peace River South	M	13,101	258	75		1	31.0	66.1	14.0
		F	12,343	241	43		1	31.1	68.0	16.0
		T	25,444	499	118	200	2	31.0	66.8	15.0
60	Peace River North	M	12,115	227	74		1	30.0	55.7	12.6
		F	11,433	250	59		4	30.0	61.1	16.7
		T	23,548	477	133	167	5	30.0	58.1	14.6
	TOTAL	M	25,216	485	149		2	30.5	60.9	13.3
		F	23,776	491	102		5	30.6	64.0	16.4
		T	48,992	976	251	367	7	30.5	62.2	14.8

TABLE 3B – *continued*

STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

24 POWELL RIVER

Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Average Age Deaths	Natural Increase/ (Decrease) Rate/1,000
47 Powell River	M	9,257	122	95		2	35.5	68.5	2.9
	F	9,104	120	73		-	37.2	73.9	5.2
	T	18,361	242	168	132	2	36.3	70.8	4.0
TOTAL	M	9,257	122	95		2	35.5	68.5	2.9
	F	9,104	120	73		-	37.2	73.9	5.2
	T	18,361	242	168	132	2	36.3	70.8	4.0

25 SKEENA-QUEEN CHARLOTTE

Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Average Age Deaths	Natural Increase/ (Decrease) Rate/1,000
50 Queen Charlotte	M	2,863	46	20		-	30.0	53.0	9.1
	F	2,319	41	7		-	30.7	60.7	14.7
	T	5,182	87	27	30	-	30.3	55.0	11.6
52 Prince Rupert	M	9,135	205	56		-	30.9	59.2	16.3
	F	8,647	206	44		1	30.6	57.5	18.7
	T	17,782	411	100	109	1	30.8	58.4	17.5
TOTAL	M	11,998	251	76		-	30.7	57.6	14.6
	F	10,966	247	51		1	30.6	57.9	17.9
	T	22,964	498	127	139	1	30.7	57.7	16.2

26 SQUAMISH-LILLOOET

Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Average Age Deaths	Natural Increase/ (Decrease) Rate/1,000
29 Lillooet	M	2,315	43	33		1	32.3	61.5	4.3
	F	2,039	29	9		1	33.7	79.9	9.8
	T	4,354	72	42	25	2	33.0	65.4	6.9
48 Howe Sound	M	9,302	168	40		1	31.1	60.5	13.8
	F	8,365	167	29		1	31.1	65.5	16.5
	T	17,667	335	69	178	2	31.1	62.6	15.1
TOTAL	M	11,617	211	73		2	31.4	60.9	11.9
	F	10,404	196	38		2	31.6	68.9	15.2
	T	22,021	407	111	203	4	31.5	63.7	13.4

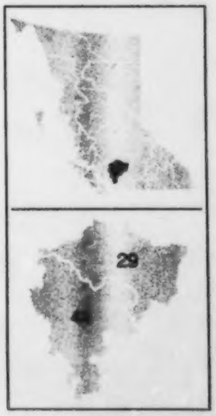
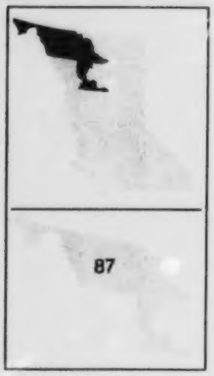


TABLE 3B – *continued*

STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

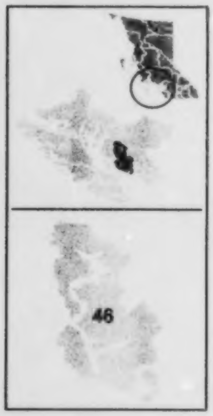
BRITISH COLUMBIA, 1990

27 STIKINE



	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
87	Stikine	M	851	11	8		-	29.6	46.4	3.5
		F	715	12	2		-	28.5	52.0	14.0
		T	1,566	23	10	10	-	29.1	47.5	8.3
	TOTAL	M	851	11	8		-	29.6	46.4	3.5
		F	715	12	2		-	28.5	52.0	14.0
		T	1,566	23	10	10	-	29.1	47.5	8.3

28 SUNSHINE COAST



	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
46	Sechelt	M	9,047	120	109		3	37.6	69.9	1.2
		F	9,163	126	77		1	40.7	77.7	5.3
		T	18,210	246	186	117	4	39.2	73.2	3.3
	TOTAL	M	9,047	120	109		3	37.6	69.9	1.2
		F	9,163	126	77		1	40.7	77.7	5.3
		T	18,210	246	186	117	4	39.2	73.2	3.3

29 THOMPSON-NICOLA

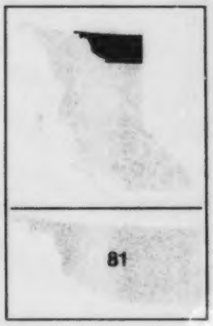
	Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
								Population	Deaths	
24	Kamloops	M	39,006	545	262		3	33.3	65.2	7.3
		F	38,987	509	200		2	34.3	72.0	7.9
		T	77,993	1,054	462	648	5	33.8	68.2	7.6
26	North Thompson	M	2,255	32	18		-	32.3	53.1	6.2
		F	2,071	39	8		-	32.3	73.3	15.0
		T	4,326	71	26	27	-	32.3	59.3	10.4
30	South Cariboo	M	3,471	62	36		-	33.5	65.2	7.5
		F	3,114	63	31		1	35.1	68.0	10.3
		T	6,585	125	67	46	1	34.2	66.5	8.8
31	Merritt	M	5,051	78	48		1	32.5	67.1	5.9
		F	4,693	80	29		1	33.4	71.9	10.9
		T	9,744	158	77	81	2	32.9	68.9	8.3
	TOTAL	M	49,783	717	364		4	33.2	64.9	7.1
		F	48,865	691	268		4	34.2	71.6	8.7
		T	98,648	1,408	632	802	8	33.7	67.7	7.9

TABLE 3B – *concluded*

STATISTICAL SUMMARIES BY REGIONAL HOSPITAL DISTRICT AND LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

Regional Hospital District/ Local Health Area	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age		Natural Increase/ (Decrease) Rate/1,000
							Population	Deaths	
30 FORT NELSON-LIARD									
81 Fort Nelson	M	2,415	42	12		-	27.4	39.5	12.4
	F	2,175	51	6		-	27.0	47.8	20.7
	T	4,590	93	18	26	-	27.2	42.3	16.3
TOTAL	M	2,415	42	12		-	27.4	39.5	12.4
	F	2,175	51	6		-	27.0	47.8	20.7
	T	4,590	93	18	26	-	27.2	42.3	16.3
BRITISH COLUMBIA									
TOTAL	**M**	**1,547,193**	**23,185**	**12,689**		**157**	**35.0**	**68.6**	**6.8**
	F	**1,583,255**	**22,148**	**10,700**		**128**	**36.8**	**75.0**	**7.2**
	T	**3,130,448**	**45,333**	**23,389**	**25,185**	**285**	**35.9**	**71.5**	**7.0**



Note: All figures are based on usual residence, except marriages, which are based on event place.
Natural Increase rate per 1,000 population.
( ) in the Natural Increase rate column indicates a natural decrease (fewer deaths than live births).
LHA 93, Eutsuk, not shown due to no residential population.
7 stillbirths of unknown gender are excluded.
Non-residents are excluded.

NOTES TO TABLE 3B

As with Health Units, in general, the rate of natural increase in Regional Hospital District (RHD) populations was associated with average age — greater increases occurred in areas having populations with lower average ages.

- The RHDs with the highest rates of natural increase per 1,000 population, by descending order:

– 30 Fort Nelson-Liard	16.3
– 25 Skeena-Queen Charlotte	16.2
– 02 Bulkley Nechako	15.3

- The RHDs with the lowest rates of natural increase per 1,000 population, in ascending order:

– 22 Okanagan-Similkameen	0.7
– 18 Kootenay-Boundary	1.2
– 03 Capital Regional District	2.1

The average age of the population and the average age at death showed substantial variation throughout the province.

- The RHDs with the highest average age:

– 22 Okanagan-Similkameen	41.5
– 03 Capital Regional District	39.6
– 28 Sunshine Coast	39.2

- The RHDs with the lowest average age:

– 30 Fort Nelson-Liard	27.2
– 27 Stikine	29.1
– 19 Mount Waddington	29.5

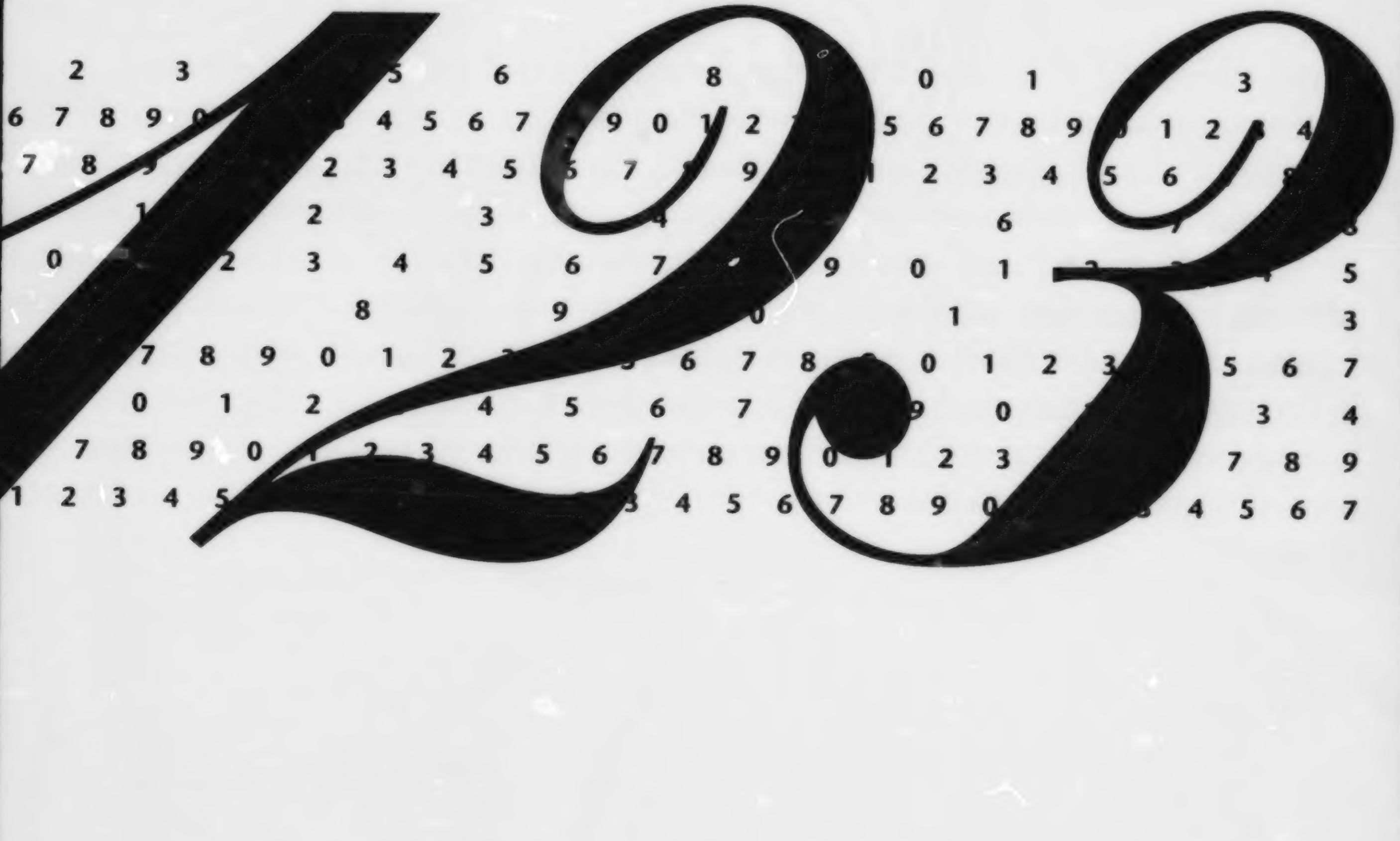
- The RHDs with the highest average age at death:

– 22 Okanagan-Similkameen	75.5
– 03 Capital Regional District	75.3
– 06 Central Fraser Valley	75.0

- The RHDs with the lowest average age at death:

– 30 Fort Nelson-Liard	42.3
– 27 Stikine	47.5
– 05 Central Coast	53.6

Birth-related Statistics



Summary

The following section of this report deals exclusively with statistics arising from birth events. Included is information pertaining to maternal and paternal ages, birth orders, marital status of mothers, mode of delivery, place of birth of mothers, and complications of pregnancy. A number of tables and charts deal with gestational age and birth weights, especially low birth weights as they are of considerable interest to health care providers and planners. Of special interest are tables providing fertility rates and age-specific birth rates. The fertility table is accompanied by a map depicting fertility rates by Local Health Area (LHA).

Summary statistics relating to birth events for 1990 are:

- there were 45,333 live births in the Province to residents of British Columbia;
- 23,185 of live births were males and 22,148 live births were females;
- the number of births increased 4.2% (1,808) over 1989;
- 99.5% (45,402) of all births (including stillbirths) occurred in hospital;
- the youngest woman to give birth to a live born child was 13 years of age, while the oldest was 47 years old;
- the youngest male to father a child was 13 years of age, while the oldest was 69 years old;
- the average age of mothers was 27.9 years, while the average age of fathers was 31.1 years;
- 5.0% (2,255) of births were of low birth weight (less than 2,500 grams). Of these, 67.1% (1,514) were pre-term births (gestational age less than 37 weeks). 5.2% of female babies were low birth weight compared to only 4.7% for male babies;
- the average weight of infants was 3,425 grams;
- mothers 19 years of age or less accounted for 5.7% (2,576) of all live births while older mothers (age 35+) accounted for 10.7% (4,832) of all live births;
- 65.6% (29,760) of live births were delivered spontaneously (vertex and breech), while at least 32.2% (14,613) required procedural assistance;
- 22.0% (9,957) of live births were by cesarean section;
- out of wedlock births accounted for 24.3% (11,029) of births;
- Telegraph Creek (98.8), Smithers (97.2) and Prince Rupert (93.2) LHAs had the highest general fertility rates, while West Vancouver-Bowen Island (42.6) and Princeton (48.8) had the lowest rates;
- 75.7% of live births were to women who were born in Canada;
- 40.6% (18,388) of live births involved one or more maternal complications of pregnancy and delivery; and,
- 26.5% of male babies had perinatal complications, compared to 23.4% for females.

TABLE 4

LIVE BIRTHS BY AGE OF MOTHER AND BIRTH ORDER

BRITISH COLUMBIA, 1990

Age of Mother	Birth Order 1	2	3	4	5	6	7	8	9+	N.S.	Total
< 13	-	-	-	-	-	-	-	-	-	-	-
13	2	-	-	-	-	-	-	-	-	-	2
14	29	-	-	-	-	-	-	-	-	-	29
15	103	5	-	-	-	-	-	-	-	-	108
16	240	11	-	-	-	-	-	-	-	-	251
17	418	54	2	-	-	-	-	-	-	-	474
18	604	88	7	-	-	-	-	-	-	-	699
19	805	210	25	4	-	-	-	-	-	-	1,044
20	932	321	39	9	1	-	-	-	-	-	1,302
21	1,013	443	97	19	4	-	-	-	-	-	1,576
22	1,114	529	127	19	3	1	-	-	-	-	1,793
23	1,147	697	192	38	4	1	-	-	-	-	2,079
24	1,220	798	239	57	14	3	1	-	-	-	2,332
25	1,411	1,039	326	76	15	3	-	-	-	-	2,870
26	1,484	1,236	389	99	17	6	2	-	-	-	3,233
27	1,452	1,286	507	122	33	7	-	-	-	-	3,407
28	1,410	1,277	532	148	39	10	1	1	-	-	3,418
29	1,286	1,284	573	164	36	8	1	2	-	-	3,354
30	1,099	1,317	600	190	46	13	5	2	-	-	3,272
31	987	1,138	593	162	53	21	3	1	2	-	2,960
32	730	957	544	180	35	11	6	1	1	-	2,465
33	591	819	424	150	45	22	5	1	1	-	2,058
34	480	668	360	172	40	23	5	3	-	-	1,751
35	367	502	341	108	50	18	8	2	2	-	1,398
36	303	412	251	102	47	10	8	1	-	-	1,134
37	187	261	194	58	33	10	2	3	3	-	751
38	132	225	143	47	22	7	4	4	5	-	589
39	103	121	88	38	14	11	7	3	3	-	388
40	60	80	48	29	10	8	4	3	-	-	242
41	42	50	32	22	11	6	1	3	5	-	172
42	12	28	28	17	4	2	2	1	1	-	95
43	5	13	10	4	1	2	2	2	1	-	40
44	2	3	3	2	-	2	-	-	1	-	13
45 +	-	1	4	2	-	-	2	-	1	-	10
N.S.	9	8	4	2	-	1	-	-	-	-	24
TOTAL	**19,779**	**15,881**	**6,722**	**2,040**	**577**	**206**	**69**	**33**	**26**	**-**	**45,333**

Note: Birth order denotes the number of live births.
Non-residents are excluded.
N.S. - Not stated.

NOTES TO TABLE 4

This table classifies live births according to the age of the mother and the number of live born children the mother has had. Of the total number of live births:

- 43.6% were first born;
- 35.0% were second born;
- 14.8% were third born; and,
- only 6.5% were fourth born or greater.

TABLE 5

LIVE BIRTHS BY AGE OF MOTHER, KIND OF BIRTH AND OUT OF WEDLOCK BIRTHS

BRITISH COLUMBIA, 1990

Age of Mother	Kind of Birth			Total	Out of Wedlock
	Single	Twin	Other		
< 15	31	-	-	31	31
15 - 19	2,548	28	-	2,576	2,155
20 - 24	8,971	111	-	9,082	3,542
25 - 29	15,942	337	3	16,282	2,882
30 - 34	12,234	263	9	12,506	1,634
35 - 39	4,159	101	-	4,260	647
40 - 44	546	16	-	562	110
45 +	8	2	-	10	5
N.S.	24	-	-	24	23
TOTAL	**44,463**	**858**	**12**	**45,333**	**11,029**

Note: For the multiple births including stillbirths, only live births are shown in this table.
Non-residents are excluded.
N.S. - Not stated.

NOTES TO TABLE 5

During 1990, single births accounted for 98.1% of all live births. Mothers 20-34 years of age accounted for 83.5% of all live births; out of wedlock births accounted for 24.3% of all live births.

- There were 423 sets of twins where both infants were live born and in 12 cases only one infant was live born.
- There were 4 sets of triplets, all live born.
- Mothers in the age group 25-29 had the greatest number of births (35.9%).

TABLE 6

LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER

BRITISH COLUMBIA, 1990

Mode of Delivery	Age of Mother									Total	Percent
	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 +	N.S.		
Spontaneous Vertex	28	1,837	6,063	10,571	8,012	2,563	331	4	17	29,426	64.9
Forceps or Suction	1	311	995	1,680	1,196	422	50	-	1	4,656	10.3
Breech	-	14	56	114	102	40	7	1	-	334	0.7
First Cesarean	2	323	1,297	2,181	1,624	580	79	3	3	6,092	13.4
Repeat Cesarean	-	37	476	1,392	1,330	556	70	1	3	3,865	8.5
N.S.	-	54	195	344	242	99	25	1	-	960	2.1
TOTAL	**31**	**2,576**	**9,082**	**16,282**	**12,506**	**4,260**	**562**	**10**	**24**	**45,333**	**100.0**

Note: Breech births with forceps would generally be coded to Breech.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.
N.S. - Not stated.

NOTES TO TABLE 6

Although the majority of live births (65.6%) were delivered spontaneously (vertex and breech), at least 32.2% required procedural assistance.

- Spontaneous vertex deliveries declined from 71.5% for mothers under 20 years of age, to 58.6% for mothers aged 40 and over.
- 38.8% of all the live births delivered by cesarean section were repeat cesarean deliveries.

TABLE 7

LIVE BIRTHS BY LOCAL HEALTH AREA AND MODE OF DELIVERY

BRITISH COLUMBIA, 1990

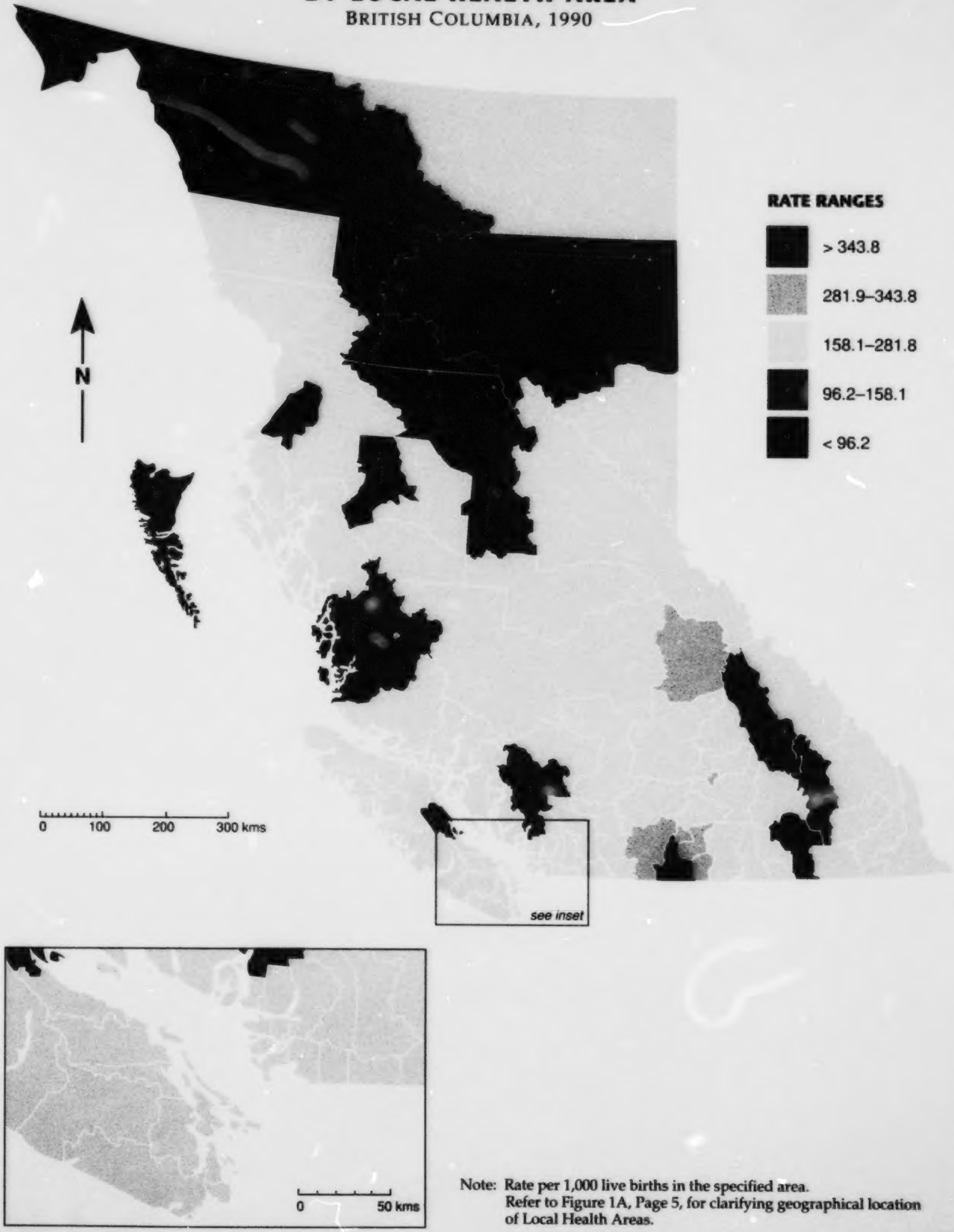
Local Health Area	Spontaneous Vertex	Breech	Forceps or Suction	Cesarean				N.S.	Total	
				First	Repeat	Total	Rate		Number	Percent
01 Fernie	144	1	20	23	16	39	191.2	-	204	0.5
02 Cranbrook	208	2	12	27	19	46	169.7	3	271	0.6
03 Kimberley	62	2	4	8	5	13	160.5	-	81	0.2
04 Windermere	60	-	2	8	7	15	189.9	2	79	0.2
05 Creston	87	-	7	14	13	27	219.5	2	123	0.3
06 Kootenay Lake	25	-	3	2	2	4	125.0	-	32	0.1
07 Nelson	184	2	19	20	15	35	142.3	6	246	0.5
09 Castlegar	89	-	18	15	16	31	223.0	1	139	0.3
10 Arrow Lakes	43	1	4	10	5	15	227.3	3	66	0.1
11 Trail	143	-	47	24	20	44	185.7	3	237	0.5
12 Grand Forks	54	1	6	14	5	19	226.2	4	84	0.2
13 Kettle Valley	23	-	6	4	3	7	184.2	2	38	0.1
14 Southern Okanagan	93	-	6	26	16	42	293.7	2	143	0.3
15 Penticton	246	1	19	79	54	133	326.0	9	408	0.9
16 Keremeos	20	-	-	13	5	18	473.7	-	38	0.1
17 Princeton	30	-	2	10	5	15	306.1	2	49	0.1
18 Golden	78	-	8	9	8	17	160.4	3	106	0.2
19 Revelstoke	61	2	9	27	17	44	376.1	1	117	0.3
20 Salmon Arm	175	2	5	40	29	69	267.4	7	258	0.6
21 Armstrong-Spallumcheen	54	-	5	13	15	28	318.2	1	88	0.2
22 Vernon	408	3	34	80	69	149	246.7	10	604	1.3
23 Central Okanagan	765	13	166	199	115	314	245.1	23	1,281	2.8
24 Kamloops	669	9	87	159	107	266	252.4	23	1,054	2.3
26 North Thompson	42	1	4	11	13	24	338.0	-	71	0.2
27 Cariboo-Chilcotin	388	4	47	79	60	139	236.4	10	588	1.3
28 Quesnel	233	2	21	48	41	89	255.0	4	349	0.8
29 Lillooet	44	-	8	9	8	17	236.1	3	72	0.2
30 South Cariboo	97	-	5	14	8	22	176.0	1	125	0.3
31 Merritt	100	2	9	25	18	43	272.2	4	158	0.3
32 Hope	91	1	3	14	15	29	230.2	2	126	0.3
33 Chilliwack	598	7	83	93	63	156	182.7	10	854	1.9
34 Abbotsford	821	13	153	183	135	318	239.8	21	1,326	2.9
35 Langley	857	5	119	172	133	305	231.1	34	1,320	2.9
36 Surrey	2,757	21	545	646	415	1061	236.9	94	4,478	9.9
37 Delta	777	6	127	175	122	297	241.1	25	1,232	2.7
38 Richmond	1,026	17	227	193	151	344	208.0	40	1,654	3.6
39 Vancouver	3,683	47	753	876	410	1286	215.7	192	5,961	13.1
40 New Westminster	391	4	50	86	32	118	205.9	10	573	1.3
41 Burnaby	1,334	14	216	265	132	397	198.6	38	1,999	4.4
42 Maple Ridge	651	7	123	142	109	251	240.0	14	1,046	2.3
43 Coquitlam	1,484	15	196	293	173	466	211.8	39	2,200	4.9
44 North Vancouver	1,033	8	149	225	133	358	226.6	32	1,580	3.5
45 West Vancouver-Bowen Island	218	5	46	52	38	90	242.6	12	371	0.8
46 Sechelt	179	3	17	24	22	46	187.0	1	246	0.5
47 Powell River	143	5	27	34	25	59	243.8	8	242	0.5
48 Howe Sound	241	6	31	26	26	52	155.2	5	335	0.7
49 Central Coast	39	1	7	5	4	9	155.2	2	58	0.1
50 Queen Charlotte	64	1	9	10	3	13	149.4	-	87	0.2
52 Prince Rupert	287	3	18	57	38	95	231.1	8	411	0.9
54 Smithers	269	4	16	34	20	54	154.3	7	350	0.8
55 Burns Lake	82	1	13	11	14	25	198.4	5	126	0.3
56 Nechako	220	1	18	24	20	44	152.2	6	289	0.6
57 Prince George	1,082	18	114	164	132	296	191.5	36	1,546	3.4
59 Peace River South	349	10	47	41	40	81	162.3	12	499	1.1
60 Peace River North	372	8	40	24	27	51	106.9	6	477	1.1
61 Greater Victoria	1,359	22	226	336	177	513	236.4	50	2,170	4.8
62 Sooke	438	2	84	86	50	136	203.0	10	670	1.5
63 Saanich	331	1	41	76	46	122	244.5	4	499	1.1
64 Gulf Islands	77	-	9	15	8	23	207.2	2	111	0.2
65 Cowichan	387	2	85	83	39	122	198.7	18	614	1.4
66 Lake Cowichan	47	-	9	10	4	14	194.4	2	72	0.2
67 Ladysmith	94	1	26	27	20	47	270.1	6	174	0.4
68 Nanaimo	574	2	134	151	65	216	230.0	13	939	2.1
69 Qualicum	148	-	31	29	16	45	197.4	4	228	0.5
70 Alberni	300	3	37	52	40	92	209.6	7	439	1.0
71 Courtenay	400	5	67	47	29	76	136.7	8	556	1.2
72 Campbell River	326	3	35	74	47	121	244.0	11	496	1.1
75 Mission	300	2	34	59	41	100	224.7	9	445	1.0
76 Agassiz-Harrison	60	2	9	10	6	16	183.9	-	87	0.2
77 Summerland	58	1	3	18	13	31	326.3	2	95	0.2
78 Enderby	54	-	4	5	8	13	180.6	1	72	0.2
80 Kitimat	125	1	21	21	26	47	238.6	3	197	0.4
81 Fort Nelson	65	-	7	12	7	19	204.3	2	93	0.2
84 Vancouver Island West	41	-	7	9	8	17	242.9	5	70	0.2
85 Vancouver Island North	164	6	20	33	18	51	203.2	10	251	0.6
87 Stikine	17	-	3	2	-	2	87.0	1	23	0.1
88 Terrace	345	2	33	56	49	105	215.2	3	488	1.1
92 Nishga	25	-	-	-	1	1	38.5	-	26	0.1
94 Telegraph Creek	12	-	1	2	1	3	176.5	1	17	0.0
99 N.S.	6	-	-	-	-	-	-	-	6	0.0
Provincial Total	**29,426**	**334**	**4,656**	**6,092**	**3,865**	**9957**	**219.6**	**960**	**45,333**	**100.0**

Note: LHA 93, Eutsuk, not shown due to no residential population. Rate per 1,000 live births in the specified area. Non-residents are excluded. N.S. - Not stated.

FIGURE 5

CESAREAN DELIVERIES OF LIVE BORN INFANTS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990


RATE RANGES
> 343.8
281.9–343.8
158.1–281.8
96.2–158.1
< 96.2
N
0
100
200
300 kms
see inset
0
50 kms

Note: Rate per 1,000 live births in the specified area.
Refer to Figure 1A, Page 5, for clarifying geographical location of Local Health Areas.

NOTES TO TABLE 7/FIGURE 5

Cesarean rates varied by Local Health Area (LHA) of residence. The provincial rate for cesareans was 219.6 per 1,000 live births.

- The LHAs with the highest cesarean rates (actual number in parentheses) in descending order:

– 16 Keremeos	473.6	(18)
– 19 Revelstoke	376.1	(44)
– 26 North Thompson	338.0	(24)
– 77 Summerland	326.3	(31)
– 15 Penticton	326.0	(133)
– 21 Armstrong-Spallumcheen	318.2	(28)
– 17 Princeton	306.1	(15)
– 14 Southern Okanagan	293.7	(42)

- The LHAs with the lowest cesarean rates (actual numbers in parentheses) in ascending order:

– 92 Nishga	38.5	(1)
– 87 Stikine	87.0	(2)
– 60 Peace River North	106.9	(51)
– 06 Kootenay Lake	125.0	(4)
– 71 Courtenay	136.7	(76)
– 07 Nelson	142.3	(35)
– 50 Queen Charlotte	149.4	(13)
– 56 Nechako	152.2	(44)
– 54 Smithers	154.3	(54)
– 48 Howe Sound	155.2	(52)
– 49 Central Coast	155.2	(9)

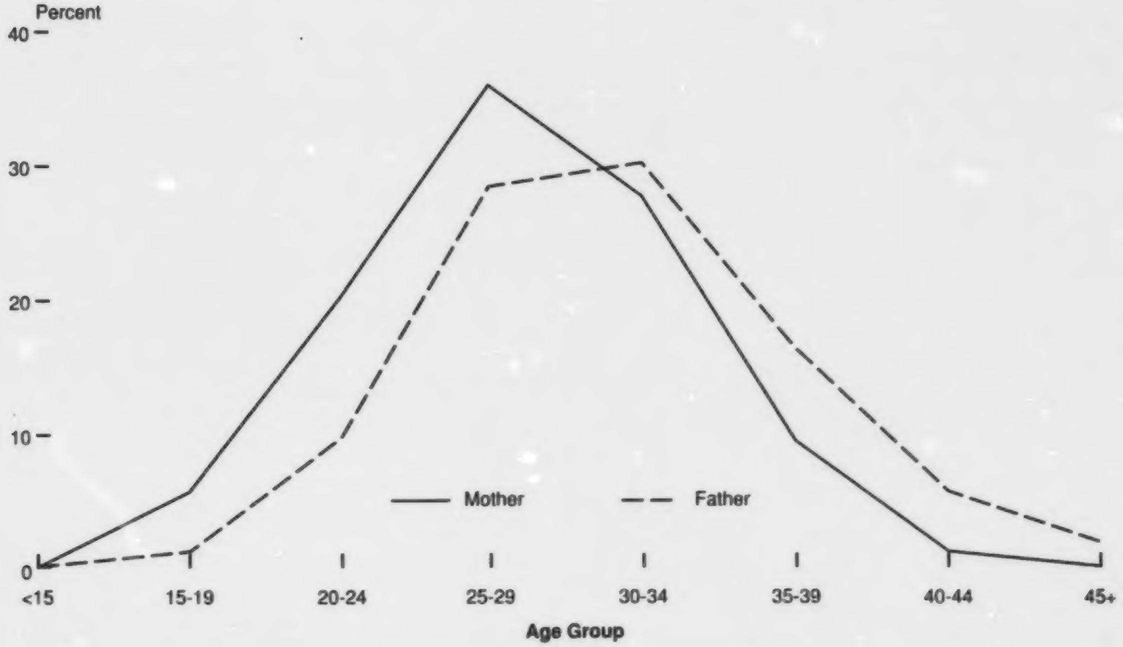
Note: Cesarean rates are based on the total number of live births for the specified LHA. The LHA refers to the residence of the mother. The birth may have occurred in a hospital in a different LHA.

TABLE 8
BIRTHS BY AGE OF FATHER AND AGE OF MOTHER
BRITISH COLUMBIA, 1990

Age of Father	Age of Mother < 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 +	N.S.	Total	Percent
< 15	-	2	-	-	-	-	-	-	-	2	0.0
15 - 19	10	433	84	5	3	-	-	-	-	535	1.2
20 - 24	2	973	2,650	647	137	19	3	-	-	4,431	9.7
25 - 29	-	359	3,903	7,096	1,383	184	10	-	-	12,935	28.4
30 - 34	-	74	1,156	5,853	5,909	740	52	-	-	13,784	30.2
35 - 39	-	18	254	1,522	3,541	1,956	144	2	-	7,437	16.3
40 - 44	-	11	88	370	997	943	207	1	-	2,617	5.7
45 +	-	1	43	155	251	317	127	4	-	898	2.0
N.S.	20	724	969	735	356	129	26	3	24	2,986	6.5
Total	**32**	**2,595**	**9,147**	**16,383**	**12,577**	**4,288**	**569**	**10**	**24**	**45,625**	**-**
Percent	**0.1**	**5.7**	**20.0**	**35.9**	**27.6**	**9.4**	**1.2**	**-**	**0.1**	**-**	**100.0**

Note: Number of births includes 292 stillbirths.
Non-residents are excluded.
N.S. - Not stated.

FIGURE 6
BIRTHS BY AGE OF FATHER AND AGE OF MOTHER
BRITISH COLUMBIA, 1990



NOTES TO TABLE 8/FIGURE 6

In 1990, there were no major differences among the parental age distributions from 1989.

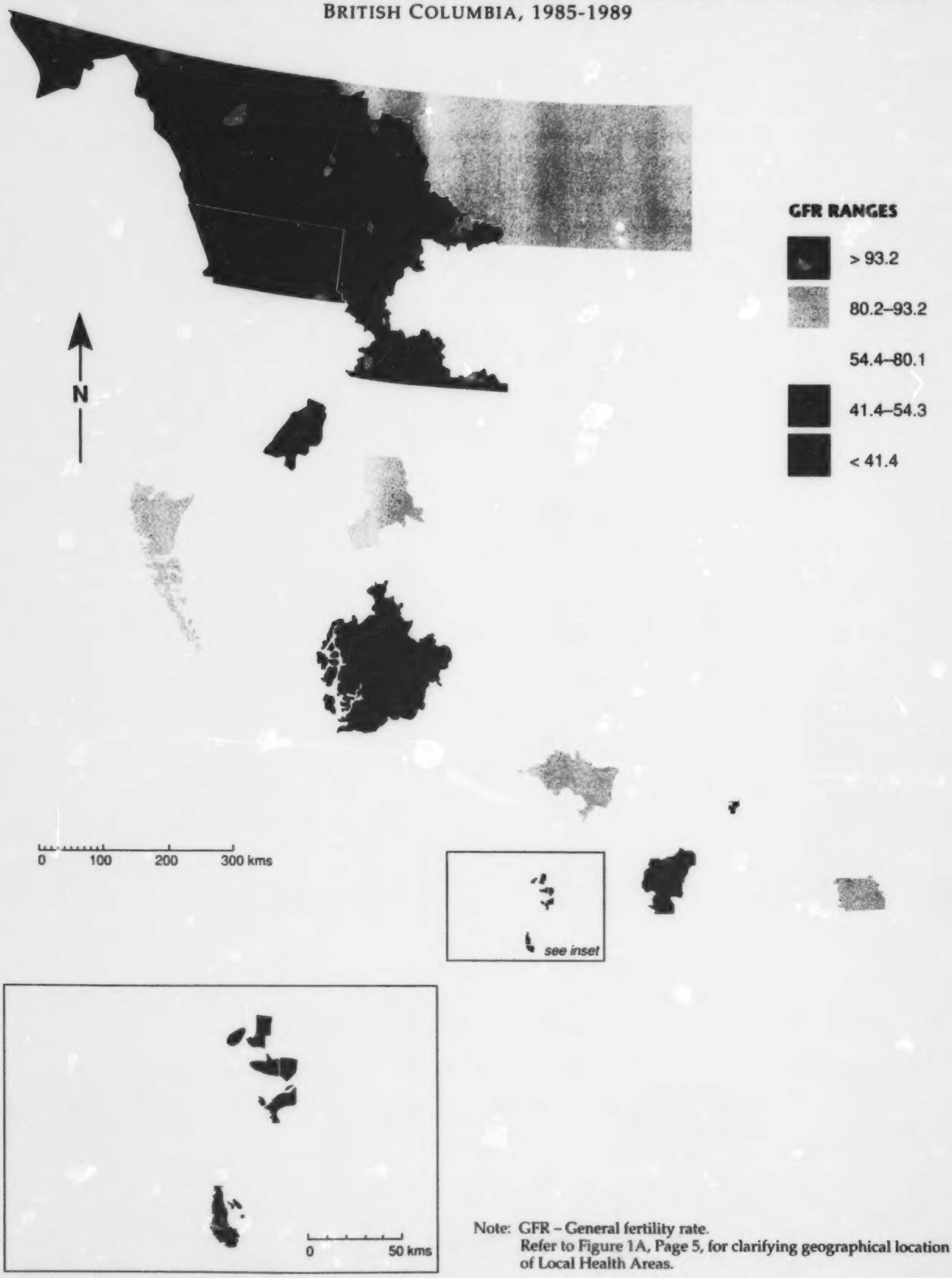
- 5.8% of 1990 births occurred to mothers under 20 years of age.
- The average age of mothers in 1990 was 27.9 years, while that of fathers was 31.1 years.

TABLE 9
LIVE BIRTH FERTILITY RATES BY LOCAL HEALTH AREA
BRITISH COLUMBIA, 1985-1989 AND 1990

Local Health Area	GFR		1990 Age-Specific Fertility Rate						1990 Total Fertility Rate
	1985 - 1989	1990	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	
01 Fernie	63.8	57.4	31.8	104.5	148.6	68.5	17.4	3.4	1871.0
02 Cranbrook	58.7	57.9	28.2	119.3	150.6	74.5	9.8	2.4	1923.6
03 Kimberley	54.7	57.0	23.0	113.6	138.6	98.8	21.4	3.5	1994.3
04 Windermere	60.9	55.2	32.7	113.7	104.4	65.2	15.6	0.0	1658.3
05 Creston	87.0	75.3	26.4	131.9	223.1	84.9	21.4	0.0	2439.1
06 Kootenay Lake	74.3	64.1	54.1	114.8	125.0	135.1	18.3	8.5	2279.2
07 Nelson	57.5	57.5	18.7	88.8	136.4	98.7	32.3	3.9	1893.4
09 Castlegar	57.0	58.1	17.5	98.6	162.9	71.9	19.1	2.5	1862.7
10 Arrow Lakes	59.7	85.6	52.2	190.5	284.3	56.5	33.3	0.0	3084.1
11 Trail	64.6	59.9	17.6	93.6	151.2	78.7	35.6	0.0	1883.5
12 Grand Forks	55.2	67.8	28.1	127.3	191.0	69.1	33.8	4.5	2269.0
13 Kettle Valley	62.3	61.9	15.5	141.3	209.0	82.6	0.0	0.0	2241.7
14 Southern Okanagan	68.8	69.8	20.9	114.1	213.1	90.2	20.3	5.6	2320.7
15 Penticton	60.6	67.9	35.6	127.5	129.3	93.0	29.8	7.8	2115.1
16 Keremeos	63.3	69.9	19.6	190.5	206.3	83.3	17.2	0.0	2585.0
17 Princeton	54.2	48.8	30.7	110.3	98.7	59.8	0.0	10.6	1550.6
18 Golden	66.1	60.7	23.8	116.5	122.6	76.2	18.1	0.0	1786.5
19 Revelstoke	62.1	61.4	64.6	100.0	110.3	85.1	23.8	2.9	1934.2
20 Salmon Arm	59.7	55.4	24.0	76.6	158.1	72.9	21.8	5.1	1792.7
21 Armstrong-Spallumcheen	53.8	61.0	39.7	107.1	177.3	79.5	25.8	0.0	2147.7
22 Vernon	60.8	64.9	28.1	95.9	149.3	101.1	28.7	1.9	2024.5
23 Central Okanagan	58.2	62.4	25.4	98.9	153.2	85.9	24.4	3.3	1955.7
24 Kamloops	56.3	56.4	28.5	86.0	128.1	81.0	22.3	1.2	1736.0
26 North Thompson	71.8	72.3	29.9	179.1	172.4	78.8	19.8	0.0	2400.2
27 Cariboo-Chilcotin	69.0	70.1	35.8	128.6	175.3	79.7	21.5	6.7	2237.8
28 Quesnel	66.5	62.9	35.1	112.2	138.2	72.9	22.2	2.3	1913.9
29 Lillooet	87.9	80.9	119.7	157.4	126.4	56.5	31.6	0.0	2458.2
30 South Cariboo	73.3	90.6	55.8	196.5	175.0	86.6	19.5	4.8	2691.1
31 Merritt	74.2	71.9	44.6	152.3	158.2	59.6	19.1	5.5	2196.6
32 Hope	65.2	82.0	34.9	130.4	213.4	88.8	12.3	0.0	2399.5
33 Chilliwack	69.9	75.7	31.1	118.9	155.4	83.6	27.6	5.7	2111.7
34 Abbotsford	73.4	72.1	28.5	112.5	152.8	89.4	24.8	2.2	2051.3
35 Langley	67.0	66.0	21.4	80.9	168.5	97.3	26.0	3.4	1987.4
36 Surrey	72.5	77.8	26.9	117.4	164.1	102.8	32.0	4.9	2240.5
37 Delta	52.7	60.4	8.2	54.4	175.3	138.0	34.9	4.8	2078.0
38 Richmond	57.0	54.1	13.1	53.0	107.3	95.5	42.0	4.0	1575.1
39 Vancouver	51.5	50.6	17.6	50.6	72.6	80.2	43.3	7.8	1360.6
40 New Westminster	54.4	52.6	35.1	77.1	65.4	76.0	28.8	5.2	1437.8
41 Burnaby	53.6	52.2	16.6	48.3	86.5	85.0	38.9	5.5	1404.0
42 Maple Ridge	70.3	73.8	22.9	82.1	174.5	108.3	31.4	3.0	2111.1
43 Coquitlam	64.5	63.3	14.6	56.3	146.7	103.8	32.1	4.4	1789.8
44 North Vancouver	54.5	54.0	10.7	30.0	94.4	110.1	43.6	7.2	1479.8
45 West Vancouver-Bowen Island	43.3	42.6	0.8	14.7	62.9	125.0	59.3	10.0	1363.9
46 Sechelt	70.0	72.8	20.1	135.7	168.7	123.2	42.3	10.4	2502.5
47 Powell River	64.5	63.2	32.4	100.6	150.4	88.3	20.6	1.5	1968.7
48 Howe Sound	79.4	77.6	31.6	121.4	154.5	94.8	31.9	4.8	2195.3
49 Central Coast	104.8	80.5	39.4	175.3	131.9	77.6	56.5	0.0	2403.1
50 Queen Charlotte	86.5	70.2	7.4	160.7	114.2	87.4	34.6	5.0	2046.5
52 Prince Rupert	80.1	93.2	74.9	150.1	172.6	103.5	38.8	6.2	2730.5
54 Smithers	89.2	97.2	67.2	163.2	186.6	118.4	36.3	6.9	2893.2
55 Burns Lake	74.7	69.6	48.2	111.9	142.9	90.6	21.2	7.1	2109.6
56 Nechako	79.8	84.9	60.7	164.3	165.5	80.1	26.7	0.0	2486.4
57 Prince George	67.3	69.3	40.7	136.1	146.8	75.5	22.2	2.0	2115.8
59 Peace River South	78.7	80.8	40.7	155.7	169.7	74.2	26.1	2.3	2342.5
60 Peace River North	80.1	84.0	43.9	162.2	196.5	63.9	34.8	5.1	2531.7
61 Greater Victoria	52.0	52.3	18.4	54.2	105.6	91.0	33.5	4.6	1536.2
62 Sooke	61.8	62.3	26.2	122.6	154.7	72.4	19.1	4.2	1996.0
63 Saanich	50.8	53.3	12.7	69.0	136.0	111.0	27.0	5.1	1804.0
64 Gulf Islands	60.9	68.6	19.0	121.5	176.5	129.6	37.2	17.1	2504.9
65 Cowichan	66.9	74.8	35.4	132.1	173.3	90.5	33.3	5.1	2348.4
66 Lake Cowichan	54.5	73.9	39.5	193.0	175.4	68.1	43.7	5.8	2627.7
67 Ladysmith	71.1	69.0	36.1	131.5	165.6	101.1	25.7	0.0	2300.4
68 Nanaimo	58.5	64.0	34.8	94.9	142.7	88.9	24.9	3.1	1946.4
69 Qualicum	58.6	53.3	19.8	123.7	138.1	76.2	24.0	3.7	1927.4
70 Alberni	68.5	66.2	30.2	113.3	156.3	82.8	30.0	1.8	2072.7
71 Courtenay	61.8	61.0	26.2	105.9	160.0	73.4	24.4	1.3	1955.7
72 Campbell River	64.8	61.2	40.1	109.3	130.6	69.6	24.0	0.8	1871.9
75 Mission	73.1	68.7	18.0	138.9	160.5	80.1	33.3	1.9	2163.4
76 Agassiz-Harrison	74.1	82.2	48.8	183.8	157.3	79.6	29.1	7.1	2528.6
77 Summerland	58.1	69.4	18.5	115.1	223.7	100.8	45.3	3.8	2535.7
78 Enderby	73.9	81.5	57.0	185.5	172.9	81.8	30.3	0.0	2637.2
80 Kitimat	65.4	64.5	33.7	111.1	159.3	87.2	12.5	4.5	2041.1
81 Fort Nelson	86.2	79.0	91.5	121.8	126.0	60.1	54.1	0.0	2266.9
84 Vancouver Island West	73.9	76.2	33.7	188.7	184.5	116.2	12.0	0.0	2675.0
85 Vancouver Island North	73.9	70.1	47.6	126.1	182.0	59.0	17.1	1.8	2167.9
87 Stikine	41.4	58.2	17.2	136.4	95.2	87.0	38.5	12.0	1931.5
88 Terrace	78.5	79.1	63.8	134.3	159.5	82.4	32.1	4.0	2380.9
92 Nishga	113.3	79.8	95.2	92.3	84.7	162.8	0.0	0.0	2175.4
94 Telegraph Creek	104.0	98.8	172.4	147.1	78.9	40.0	93.8	0.0	2660.9
Provincial Total	**61.2**	**62.0**	**25.3**	**83.2**	**124.9**	**90.2**	**32.5**	**4.7**	**1804.2**

Note: GFR : General Fertility Rate — live births per 1,000 women of childbearing age, 15 - 44 years. Age-Specific Fertility Rate — live births per 1,000 women in each age group of childbearing age (15-44 years). Total Fertility Rate — sum of age-specific fertility rates multiplied by the number of years in each age group. LHA 93, Eutsuk, not shown due to no residential population. Non-residents are excluded.

FIGURE 7
LIVE BIRTH GENERAL FERTILITY RATES BY LOCAL HEALTH AREA
BRITISH COLUMBIA, 1985-1989


GFR RANGES
> 93.2
80.2–93.2
54.4–80.1
41.4–54.3
< 41.4
N
0
100
200
300 kms
see inset
0
50 kms

Note: GFR – General fertility rate.
Refer to Figure 1A, Page 5, for clarifying geographical location of Local Health Areas.

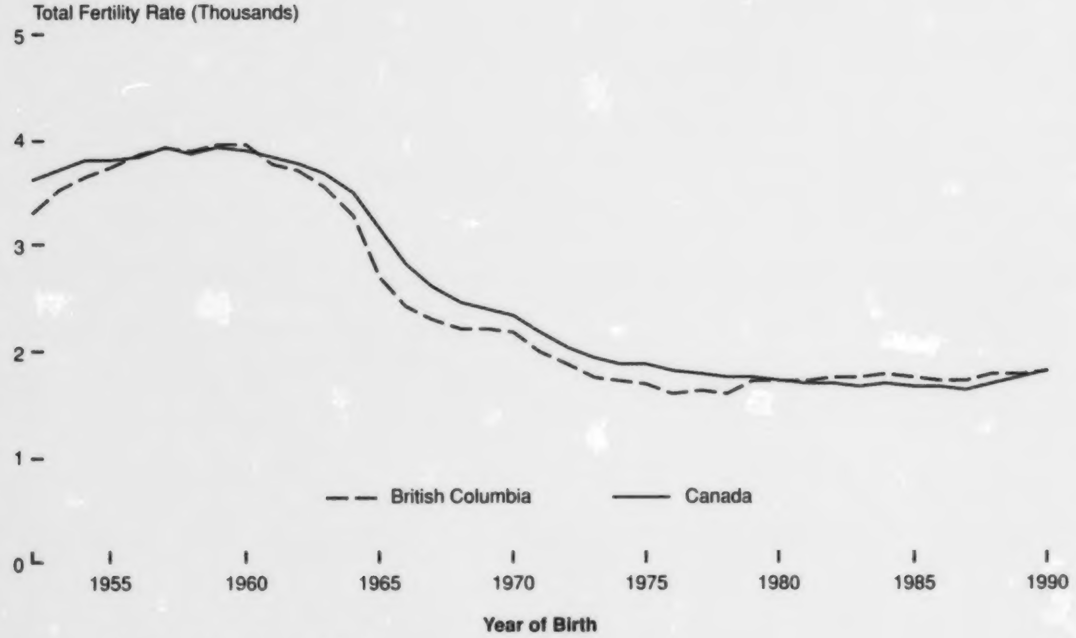
DEFINITION OF TERMS

GENERAL FERTILITY RATE
The number of live births in a given year divided by the number of women of child bearing age (15-44) per 1,000 women in the age group, as of the middle of that year.

TOTAL FERTILITY RATE
An index representing the total rate of reproductive behaviour in a given year calculated by adding the sum of the age-specific fertility rates (live births per 1,000 women in 5-year age groups) of women multiplied by five.

GESTATIONAL AGE
The duration of gestation, which is measured from the first day of the last normal menstrual period. Gestational age is expressed in completed days or completed weeks.

FIGURE 8
TRENDS OF TOTAL FERTILITY RATES
BRITISH COLUMBIA AND CANADA, 1952-1990



Note: 1990 rate for Canada was not available.

NOTES TO TABLE 9/FIGURES 7 AND 8

In 1990, the provincial general fertility rate at 62.0 increased marginally from the 1985-1989 average rate of 61.2.

- The Local Health Areas (LHAs) with the highest rates, in descending order:

– 94 Telegraph Creek	98.8
– 54 Smithers	97.2
– 52 Prince Rupert	93.2

- The LHAs with the lowest rates, in ascending order:

– 45 West Vancouver-Bowen Island	42.6
– 17 Princeton	48.8
– 39 Vancouver	50.6

Provincial age-specific fertility rates varied from a low of 4.7 for women aged 40-44 to 124.9 for women aged 25-29. The rate also varied considerably among LHAs within age groups. The highest rates within specified age groups:

- among teenagers (ages 15-19 years)

– 94 Telegraph Creek	172.4
– 29 Lillooet	119.7

- among women aged 20-24 years

– 30 South Cariboo	196.5
– 66 Lake Cowichan	193.0

- among women aged 25-29 years

– 10 Arrow Lakes	284.3
– 77 Summerland	223.7

- among women aged 30-34 years

– 92 Nishga	162.8
– 37 Delta	138.0

- among women aged 35-39 years

– 94 Telegraph Creek	93.8
– 45 West Vancouver-Bowen Island	59.3

- among women aged 40-44 years

– 64 Gulf Islands	17.1
– 87 Stikine	12.0

The total fertility rate for British Columbia has been very similar to that of Canada, for the period 1952-1990. For most of the period, up until 1980, the British Columbia rate has been slightly lower than the Canada rate.

- In 1990, the Total Fertility Rate ranged from 1,360.6 in Vancouver to 3,084.1 in Arrow Lakes, with the provincial rate being 1,804.2.
- The LHAs with the highest Total Fertility Rates, in descending order:

– 10 Arrow Lakes	3,084.1
– 54 Smithers	2,893.2
– 52 Prince Rupert	2,730.5

- The LHAs with the lowest Total Fertility Rates, in ascending order:

– 39 Vancouver	1,360.6
– 45 West Vancouver-Bowen Island	1,363.9
– 41 Burnaby	1,404.0

TABLE 10
LIVE BIRTHS BY BIRTH WEIGHT AND GESTATIONAL AGE
BRITISH COLUMBIA, 1990

Birth Weight (In grams)	Gestational Age (In weeks)							Total
	<20	20 - 27	28 - 36	37 - 41	42 - 45	46+	N.S.	
< 500	-	26	1	-	-	-	-	27
500 - 749	1	65	4	-	-	-	-	70
750 - 999	-	50	26	-	-	-	-	76
1,000 - 1,249	-	36	74	-	-	-	-	110
1,250 - 1,499	-	8	100	3	-	-	-	111
1,500 - 1,749	-	-	157	14	-	-	-	171
1,750 - 1,999	-	-	218	34	-	-	-	252
2,000 - 2,249	-	1	317	195	1	-	-	514
2,250 - 2,499	-	-	430	488	4	-	2	924
2,500 - 2,749	-	-	477	1,602	26	-	1	2,106
2,750 - 2,999	-	-	327	3,602	89	-	1	4,019
3,000 - 3,249	-	-	232	6,766	227	-	1	7,226
3,250 - 3,499	-	-	99	8,354	407	-	1	8,861
3,500 - 3,749	-	-	59	7,914	568	-	1	8,542
3,750 - 3,999	-	-	21	5,499	539	-	1	6,060
4,000 - 4,249	-	-	6	3,154	443	-	-	3,603
4,250 - 4,499	-	-	3	1,444	243	-	-	1,690
4,500 - 4,749	-	-	2	526	93	-	-	621
4,750 - 4,999	-	-	-	185	54	-	-	239
5,000 - 5,249	-	-	-	61	15	-	-	76
5,250 - 5,499	-	-	-	17	3	-	-	20
5,500+	-	-	-	5	2	-	-	7
N.S.	-	1	1	6	-	-	-	8
TOTAL	**1**	**187**	**2,554**	**39,869**	**2,714**	**-**	**8**	**45,333**

Note: Non-residents are excluded.
N.S. - Not stated.

NOTES TO TABLE 10

Pre-term live births (less than 37 weeks of gestational age) as a percentage of live births declined slightly from 6.3% (2,726) in 1989 to 6.0% (2,742) in 1990.

- Amongst pre-term live births, 55.2% (1,514) were of low birth weight (less than 2,500 grams) in 1990, marginally less than the 55.8% (1,522) in 1989.
- Only 1.6% (739) of live births were low birth weight for full-term babies.

TABLE 11

LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER

BRITISH COLUMBIA, 1990

Birth Weight (In grams)	Age of Mother (In years)									Total
	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 +	N. S.	
< 500	-	3	4	9	2	9	-	-	-	27
500 - 749	-	6	13	26	16	8	-	-	1	70
750 - 999	-	5	16	29	18	8	-	-	-	76
1,000 - 1,249	-	9	15	40	32	11	3	-	-	110
1,250 - 1,499	-	7	14	42	35	11	2	-	-	111
1,500 - 1,749	-	13	30	59	39	27	2	1	-	171
1,750 - 1,999	-	21	45	97	57	26	6	-	-	252
2,000 - 2,249	1	45	107	171	141	39	8	1	1	514
2,250 - 2,499	-	54	186	341	239	97	7	-	-	924
2,500 - 2,749	-	154	449	722	554	202	25	-	-	2,106
2,750 - 2,999	4	227	911	1,455	992	371	55	-	4	4,019
3,000 - 3,249	3	404	1,550	2,581	1,959	628	98	1	2	7,226
3,250 - 3,449	7	536	1,787	3,229	2,415	785	92	4	6	8,861
3,500 - 3,749	8	460	1,624	3,115	2,394	824	113	-	4	8,542
3,750 - 3,999	3	329	1,169	2,213	1,719	550	72	2	3	6,060
4,000 - 4,249	2	182	691	1,235	1,093	361	38	-	1	3,603
4,250 - 4,499	3	76	299	570	508	201	32	1	-	1,690
4,500 - 4,749	-	30	113	226	173	72	6	-	1	621
4,750 - 4,999	-	10	40	78	87	22	2	-	-	239
5,000 - 5,249	-	4	15	25	26	6	-	-	-	76
5,250 - 5,499	-	-	1	14	4	1	-	-	-	20
5,500+	-	1	1	3	2	-	-	-	-	7
N.S.	-	-	2	2	1	1	1	-	1	8
TOTAL	**31**	**2,576**	**9,082**	**16,282**	**12,506**	**4,260**	**562**	**10**	**24**	**45,333**

Note: Non-residents are excluded.
N.S. - Not stated.

NOTES TO TABLE 11

Of the total live births, 5.0% (2,255) were of low birth weight (less than 2,500 grams) while 2.1% (963) were of high birth weight (4,500+ grams).

- 6.3% (164) of live births to mothers under the age of 20 years were low birth weight babies, while 5.5% (266) of live births to mothers aged 35 years or older were low birth weight.
- Mothers over the age of 35 or under the age of 20 were more likely to have low birth weight children.

TABLE 12

LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA AND GESTATIONAL AGE

BRITISH COLUMBIA, 1985-1989 AND 1990

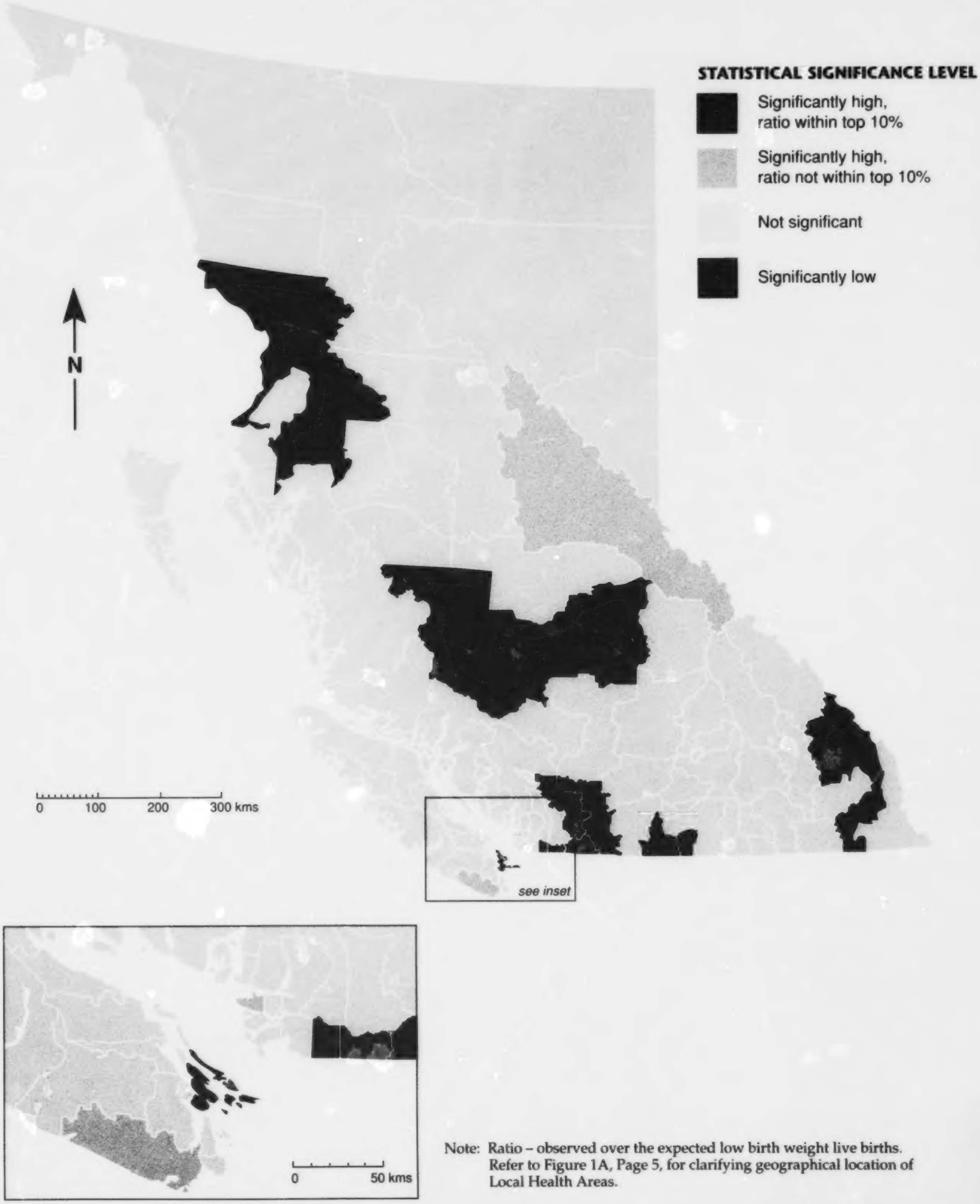
	1985-1989					1990					
	Low Birth Weight Live Births					Gestational Age (In weeks)					
Local Health Area	Observed	Expected	Ratio	(p)	Rate	< 37	37 - 41	42+	N.S.	Total	Rate
01 Fernie	70	62.4	1.12		55.5	5	2	-	-	7	34.3
02 Cranbrook	97	74.0	1.31	*	65.0	8	5	-	-	13	48.0
03 Kimberley	14	23.0	0.61		30.2	4	1	1	-	6	74.1
04 Windermere	12	22.6	0.53	*	26.3	2	4	-	-	6	75.9
05 Creston	30	37.5	0.80		39.7	4	3	-	-	7	56.9
06 Kootenay Lake	13	7.9	1.64		65.7	1	-	-	-	1	31.3
07 Nelson	52	61.3	0.85		42.1	4	4	-	-	8	32.5
09 Castlegar	33	34.6	0.95		47.4	3	4	-	-	7	50.4
10 Arrow Lakes	7	10.2	0.69		26.6	1	1	-	-	2	30.3
11 Trail	69	66.1	1.04		51.7	5	5	-	-	10	42.2
12 Grand Forks	15	17.9	0.84		41.8	3	2	-	-	5	59.5
13 Kettle Valley	7	6.2	1.14		36.1	1	1	-	-	2	52.6
14 Southern Okanagan	63	37.7	1.67	*	82.9	2	1	-	-	3	21.0
15 Penticton	97	86.4	1.12		55.8	10	12	-	-	22	53.9
16 Keremeos	15	7.0	2.14	*	84.7	1	1	-	-	2	52.6
17 Princeton	15	13.7	1.10		54.3	1	2	-	-	3	61.2
18 Golden	22	28.3	0.78		38.5	3	-	-	-	3	28.3
19 Revelstoke	25	32.3	0.77		38.3	8	-	-	-	8	63.4
20 Salmon Arm	61	69.8	0.87		43.3	8	2	-	-	10	38.8
21 Armstrong-Spallumcheen	19	20.1	0.95		47.1	4	2	-	-	6	68.2
22 Vernon	136	141.5	0.96		47.7	24	10	-	-	34	56.3
23 Central Okanagan	255	277.8	0.92		45.6	43	26	1	-	70	54.6
24 Kamloops	259	265.4	0.98		48.5	35	23	-	-	58	55.0
26 North Thompson	22	19.7	1.11		55.4	4	3	-	-	7	98.6
27 Cariboo-Chilcotin	183	151.9	1.21	*	59.8	22	5	-	1	28	47.6
28 Quesnel	110	95.4	1.15		57.2	10	6	-	-	16	45.8
29 Lillooet	14	21.1	0.66		32.9	-	1	-	-	1	13.9
30 South Cariboo	33	29.3	1.13		55.8	7	3	-	-	10	80.0
31 Merritt	39	41.5	0.94		46.7	6	4	-	-	10	63.3
32 Hope	39	25.2	1.55	*	76.8	8	3	-	-	11	87.3
33 Chilliwack	145	176.5	0.82	*	40.8	25	11	-	-	36	42.2
34 Abbotsford	245	292.2	0.84	*	41.7	45	21	-	-	66	49.8
35 Langley	248	299.1	0.83	*	41.2	37	20	-	-	57	43.2
36 Surrey	898	897.6	1.00		49.8	169	75	-	-	244	54.3
37 Delta	233	264.1	0.88		43.9	34	13	-	-	47	38.1
38 Richmond	377	403.3	0.93		46.5	51	24	-	-	75	45.3
39 Vancouver	1,599	1417.2	1.13	*	56.1	244	98	1	-	343	57.5
40 New Westminster	136	132.3	1.03		51.2	22	11	-	-	33	57.6
41 Burnaby	486	479.1	1.01		50.4	75	33	-	-	108	54.0
42 Maple Ridge	193	205.4	0.94		46.8	29	11	-	-	40	38.2
43 Coquitlam	482	504.9	0.95		47.5	87	31	-	-	118	53.6
44 North Vancouver	337	370.1	0.91		45.3	32	15	1	-	48	30.4
45 West Vancouver-Bowen Island	74	90.0	0.82		40.9	8	3	-	-	11	29.6
46 Sechelt	66	57.3	1.15		57.2	10	5	-	-	15	61.0
47 Powell River	59	61.7	0.96		47.4	7	5	-	-	12	49.6
48 Howe Sound	90	77.2	1.17		58.0	6	4	-	-	10	29.9
49 Central Coast	19	19.2	0.99		49.1	5	1	-	-	6	103.4
50 Queen Charlotte	28	28.9	0.97		48.1	2	-	-	-	2	23.0
52 Prince Rupert	77	89.5	0.86		42.8	15	7	-	-	22	53.5
54 Smithers	86	80.2	1.07		53.2	9	4	-	-	13	37.1
55 Burns Lake	32	33.8	0.95		46.9	4	1	-	-	5	39.7
56 Nechako	69	70.6	0.98		48.5	9	6	1	-	16	55.4
57 Prince George	439	390.6	1.12	*	55.8	49	24	-	1	74	47.9
59 Peace River South	120	128.9	0.93		46.2	14	6	-	-	20	40.1
60 Peace River North	110	122.3	0.90		44.6	5	14	-	-	19	39.8
61 Greater Victoria	543	516.6	1.05		52.3	69	31	-	-	100	46.1
62 Sooke	180	152.7	1.18	*	58.6	28	14	-	-	42	62.7
63 Saanich	89	108.3	0.82		40.9	9	8	-	-	17	34.1
64 Gulf Islands	10	22.7	0.44	*	21.9	9	-	-	-	9	81.1
65 Cowichan	141	131.4	1.07		53.4	23	12	-	-	35	57.0
66 Lake Cowichan	17	14.4	1.18		58.6	1	3	-	-	4	55.6
67 Ladysmith	43	43.8	0.98		48.8	4	2	-	-	6	34.5
68 Nanaimo	217	203.3	1.07		53.0	23	21	-	-	44	46.9
69 Qualicum	59	57.8	1.02		50.8	2	2	-	-	4	17.5
70 Alberni	137	116.3	1.18		58.5	19	4	-	-	23	52.4
71 Courtenay	129	131.4	0.98		48.8	19	14	-	-	33	59.4
72 Campbell River	131	121.6	1.08		53.5	14	9	-	-	23	46.4
75 Mission	104	106.5	0.98		48.5	13	8	-	-	21	47.2
76 Agassiz-Harrison	7	14.7	0.48	*	18.9	2	-	-	-	2	23.0
77 Summerland	17	20.1	0.85		42.1	3	3	-	-	6	63.2
78 Enderby	14	18.2	0.77		38.3	5	-	-	-	5	69.4
80 Kitimat	47	52.5	0.90		44.3	7	4	-	-	11	55.8
81 Fort Nelson	28	28.8	0.97		48.1	3	2	-	-	5	53.8
84 Vancouver Island West	25	18.1	1.39		68.9	1	-	-	-	1	14.3
85 Vancouver Island North	67	70.0	0.96		47.5	12	1	-	-	13	51.8
87 Stikine	7	3.8	1.85		70.0	1	3	-	-	4	173.9
88 Terrace	87	123.0	0.71	*	35.1	17	13	-	-	30	61.5
92 Nishga	6	10.0	0.60		29.7	-	1	-	-	1	38.5
94 Telegraph Creek	3	2.5	1.20		35.3	-	-	-	-	-	-
Provincial Total	**10,586**	**-**	**-**		**49.7**	**1,514**	**734**	**5**	**2**	**2,255**	**49.7**

Note: * Statistical testing indicates that observed low birth weight live births is significantly different from the expected ($p < 0.05$ two tailed). Low Birth Weight denotes < 2,500 grams. Ratio — observed over the expected low birth weight live births. Rate per 1,000 live births in the specified area. LHA 93, Eutsuk, not shown due to no residential population and non-residents are excluded. N.S - Not stated.

FIGURE 9

LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1985-1989


STATISTICAL SIGNIFICANCE LEVEL
Significantly high, ratio within top 10%
Significantly high, ratio not within top 10%
Not significant
Significantly low
N
0
100
200
300 kms
see inset
0
50 kms

Note: Ratio – observed over the expected low birth weight live births. Refer to Figure 1A, Page 5, for clarifying geographical location of Local Health Areas.

NOTES TO TABLE 12/FIGURE 9

In 1990 and 1985-1989, the Provincial low birth weight (LBW) rate was 49.7 per 1,000 live births.

- Local Health Areas (LHAs) having the highest LBW rates (actual numbers in parentheses) in 1990:

– 87	Stikine	173.9	(4)
– 49	Central Coast	103.4	(6)
– 26	North Thompson	98.6	(7)
– 32	Hope	87.3	(11)
– 64	Gulf Islands	81.1	(9)

When the number of observed LBW live births in LHAs are compared to the expected LBW live births for that area, a number of LHAs showed high (or) low ratios which were statistically significant over the 1985-1989 period.

- LHAs with the highest ratios which were statistically significant:

– 16	Keremeos	2.14
– 14	South Okanagan	1.67
– 32	Hope	1.55
– 02	Cranbrook	1.31
– 27	Cariboo-Chilcotin	1.21
– 62	Sooke	1.18

- LHAs with the lowest ratios which were statistically significant:

– 64	Gulf Islands	0.44
– 76	Agassiz-Harrison	0.48
– 04	Windermere	0.53
– 92	Nishga	0.60
– 88	Terrace	0.71
– 33	Chilliwack	0.82

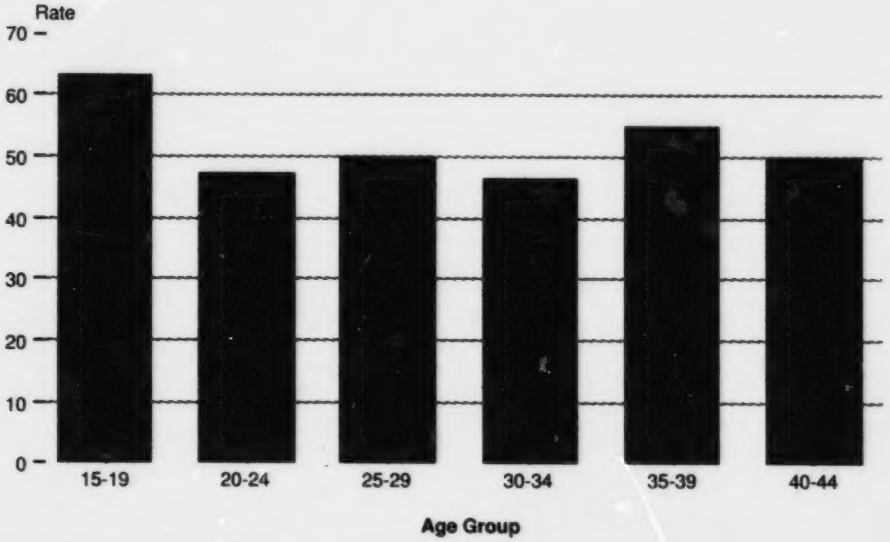
- 67.1% (1,514) of all LBW babies were pre-term (<37 weeks gestational age).

TABLE 13
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER AND GENDER
BRITISH COLUMBIA, 1990

Age of Mother	Male		Female		Total		
	Number	Percent	Number	Percent	Number	Percent	Rate
< 15	-	-	1	0.1	1	-	++
15 - 19	88	8.0	75	6.5	163	7.2	63.3
20 - 24	206	18.8	224	19.3	430	19.1	47.3
25 - 29	406	37.1	408	35.2	814	36.1	50.0
30 - 34	271	24.7	308	26.6	579	25.7	46.3
35 - 39	107	9.8	129	11.1	236	10.5	55.4
40 - 44	14	1.3	14	1.2	28	1.2	49.8
45+	2	0.2	-	-	2	0.1	++
N.S.	1	0.1	1	0.1	2	0.1	++
TOTAL	**1,095**	**100.0**	**1,160**	**100.0**	**2,255**	**100.0**	**49.7**

Note: Low Birth Weight denotes < 2500 grams.
++ denotes the number of cases is small.
Rate per 1,000 live births in the specified age group.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.
N.S. - Not stated.

FIGURE 10
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 1990



Note: Rate per 1,000 live births in the specified age group.

NOTES TO TABLE 13/FIGURE 10

- Female babies were more likely to be low birth weight than male babies: 4.7% of males were low birth weight compared to 5.2% for females.
- Mothers in the age group 15-19 years showed the highest rate (63.3) of low birth weight babies.
- Mothers in the 30-34 age group showed the lowest rate (46.3) of low birth weight babies.

TABLE 14

LIVE BIRTHS BY AGE AND MARITAL STATUS OF MOTHER

BRITISH COLUMBIA, 1990

Age of Mother	Marital Status			Total
	Married	Unmarried	N.S.	
< 20	423	2,179	5	2,607
20 - 24	5,597	3,484	1	9,082
25 - 29	13,533	2,747	2	16,282
30 - 34	10,972	1,533	1	12,506
35 - 39	3,667	592	1	4,260
40+	463	109	-	572
N.S.	1	23	-	24
TOTAL	**34,656**	**10,667**	**10**	**45,333**
Percent	**76.4**	**23.5**	**0.0**	**100.0**

Note: Percentage may not add to 100 due to rounding.
Unmarried includes single, divorced, widowed and separated.
Non-residents are excluded.
N.S.- Not stated.

NOTES TO TABLE 14

In 1990, 23.5% (10,667) of live births occurred to unmarried mothers.

- 20.4% (2,179) of live births were to unmarried mothers who were under the age of 20 years.
- The percentage of live births to unmarried mothers within specified age groups declined from 83.6% for mothers under 20, to 12.3% for mothers aged 30-34.
- The percentage of live births to unmarried mothers increased to 13.9% for mothers aged 35-39, and then to 19.1% for mothers age 40 or over.

TABLE 15

AVERAGE LIVE BIRTH WEIGHT BY GESTATIONAL AGE

BRITISH COLUMBIA, 1985-1989 AND 1990

Gestational Age (In weeks)	1985-1989		1990	
	Number	Average Weight (In grams)	Number	Average Weight (In grams)
25	146	816	29	793
26	200	923	35	949
27	189	1,032	48	1,005
28	280	1,208	67	1,198
29	249	1,354	46	1,416
30	367	1,608	72	1,509
31	367	1,669	78	1,718
32	672	1,887	157	1,845
33	974	2,091	169	2,119
34	1,565	2,314	345	2,296
35	2,195	2,510	517	2,518
36	5,105	2,767	1,102	2,778
37	9,209	3,002	2,134	3,013
38	25,302	3,244	5,831	3,255
39	40,470	3,410	8,932	3,408
40	79,577	3,553	16,216	3,555
41	31,308	3,680	6,750	3,693
42	13,163	3,745	2,573	3,771
43	986	3,792	134	3,815
44	69	3,743	7	3,778
TOTAL	**212,393**	**3,427**	**45,242**	**3,425**

Note: Cases with gestational age under 25 or over 44 are excluded.
Cases with unknown gestational age or unknown birth weight are excluded.
Non-residents are excluded.

NOTE TO TABLE 15

- Average birth weight for 1990 at 3,425 grams was virtually unchanged from the period 1985-1989 (3,427 grams).
- Births prior to the 35th week of gestation, on average, resulted in low birth weight babies, for both the 1985-1989 period and for 1990.

TABLE 16

LIVE BIRTHS BY MOTHER'S COUNTRY/AREA OF BIRTH

BRITISH COLUMBIA, 1990

Country/Area	Live Births Number	Live Births Percent
Canada	34,304	75.7
– British Columbia	22,441	49.5
– Other	11,863	26.2
Asia	5,006	11.0
– Hong Kong	779	1.7
– China	656	1.4
– India	1,730	3.8
– Philippines	614	1.4
– Vietnam	371	0.8
– Other	856	1.9
Europe	2,725	6.0
– England	989	2.2
– Scotland	211	0.5
– Germany	330	0.7
– Other	1,195	2.6
North America (except Canada)	1,207	2.7
– U. S. A.	1,122	2.5
– Other	85	0.2
Australia/New Zealand	588	1.3
– Fiji Islands	399	0.9
– Other	189	0.4
Africa	309	0.7
Central America	264	0.6
– Caribbean	96	0.2
– Other	168	0.4
South America	207	0.5
Unspecified	723	1.6
Total	**45,333**	**100.0**

Note: Non-residents are excluded.
Percentage may not add to 100 due to rounding.

NOTES TO TABLE 16

For 1990 live births:

- 75.7% were born to mothers born in Canada;
- Of these, 49.5% were born to mothers born in British Columbia and 26.2% were born to mothers born elsewhere in Canada;
- 11.0% were born to mothers born in Asia;
- 6.0% were born to mothers born in Europe.

TABLE 17
COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 1990

Maternal Complications	ICD Codes	Age of Mother					Total
		<20	20 - 29	30 - 39	40+	N.S.	
Antepartum Hemorrhage	640-641	20	258	221	7	1	507
Hypertension	642	85	517	337	15	-	954
Early or Threatened Labour	644	175	1,350	893	39	2	2,459
Prolonged Pregnancy	645	150	1,571	889	19	-	2,629
Other Complications of Pregnancy	643, 646	16	110	73	4	-	203
Infective and Parasitic Conditions	647	15	105	82	2	-	204
Diabetes/Other Maternal Conditions	648	30	492	555	31	1	1,109
Malposition and Malpresentation	652	54	797	598	25	-	1,474
Disproportion	653	58	773	529	19	-	1,379
Abnormality of Reproductive Organs	654	12	375	665	35	-	1,087
Fetal Abnormality Affecting Mother	655-656	143	1,079	790	23	-	2,035
Other Problems of Amniotic Cavity	657-658, 667	42	403	331	13	1	790
Obstructed Labour	660	62	704	441	19	-	1,226
Abnormality of Forces of Labour	661	63	600	409	14	-	1,086
Long Labour	662	42	376	218	2	1	639
Umbilical Cord Complications	663	23	260	157	7	1	448
Obstetrical Trauma	664-665	13	138	76	1	-	228
Postpartum Hemorrhage	666	32	311	168	4	-	515
Other Labour/Delivery Complications	659, 668-669	170	1,775	1,233	47	1	3,226
Total Maternal Complications	**640-648, 652-669**	**1,205**	**11,994**	**8,665**	**326**	**8**	**22,198**
Live Births with Maternal Complications	**– Number**	**1,002**	**10,015**	**7,008**	**256**	**7**	**18,388**
	– Percent*	**38.4**	**39.5**	**41.8**	**44.8**	**29.2**	**40.6**

Note: * Percent based upon live births for the specified age group.
Each birth can have more than one maternal complication code.
Non-residents are excluded.

NOTES TO TABLE 17

In 1990, over 40% of live births involved one or more maternal complications of pregnancy and delivery.

- The most common complications were:
  - prolonged pregnancy — 11.8% of complications;
  - early or threatened labour — 11.1% of complications;
  - fetal abnormality affecting mother — 9.2% of complications.

- The likelihood of complications of pregnancy increased as the age group of mothers increased:
  - 38.4% of mothers aged less than 20 years had complications;
  - 44.8% of mothers aged 40 years or over had complications.

TABLE 18

PERINATAL COMPLICATIONS IN LIVE BIRTHS BY GENDER

BRITISH COLUMBIA, 1990

Perinatal Complications	ICD Codes	Male	Female	Total
Maternal Conditions Not Related to Pregnancy	760	8	6	14
Complications of Pregnancy, Labour, and Delivery	761, 763	1,120	955	2,075
Complications of Placenta, Cord, and Membranes	762	147	118	265
Slow Fetal Growth and Fetal Malnutrition	764	251	326	577
Short Gestation and Unspecified Low Birth Weight	765	1,591	1,353	2,944
Long Gestation and High Birth Weight	766	1,607	1,019	2,626
Birth Trauma	767	71	48	119
Intrauterine Hypoxia and Birth Asphyxia	768	2,847	2,564	5,411
Respiratory Conditions of Fetus and Newborn	769-770	109	89	198
Infections Specific to the Perinatal Period	771	12	9	21
Fetal and Neonatal Hemorrhage	772	3	4	7
Perinatal Jaundice/Other Hematological Disorders	773-774, 776	20	16	36
Perinatal Endocrine and Metabolic Disturbances	775	5	1	6
Perinatal Digestive System Disorders	777	2	2	4
Integument and Temperature Regulation Conditions	778	31	8	39
Other and Ill-Defined Perinatal Conditions	779	13	14	27
Total Perinatal Complications	**760-779**	**7,837**	**6,532**	**14,369**
Live Births with Perinatal Complications	**– Number**	**6,137**	**5,175**	**11,312**
	– Percent*	**26.5**	**23.4**	**25.0**

Note: * Percent based upon live births for the specified gender.
Each birth can have more than one perinatal complication code.
Perinatal complications other than those shown above are not included in this table.
Non-residents are excluded.

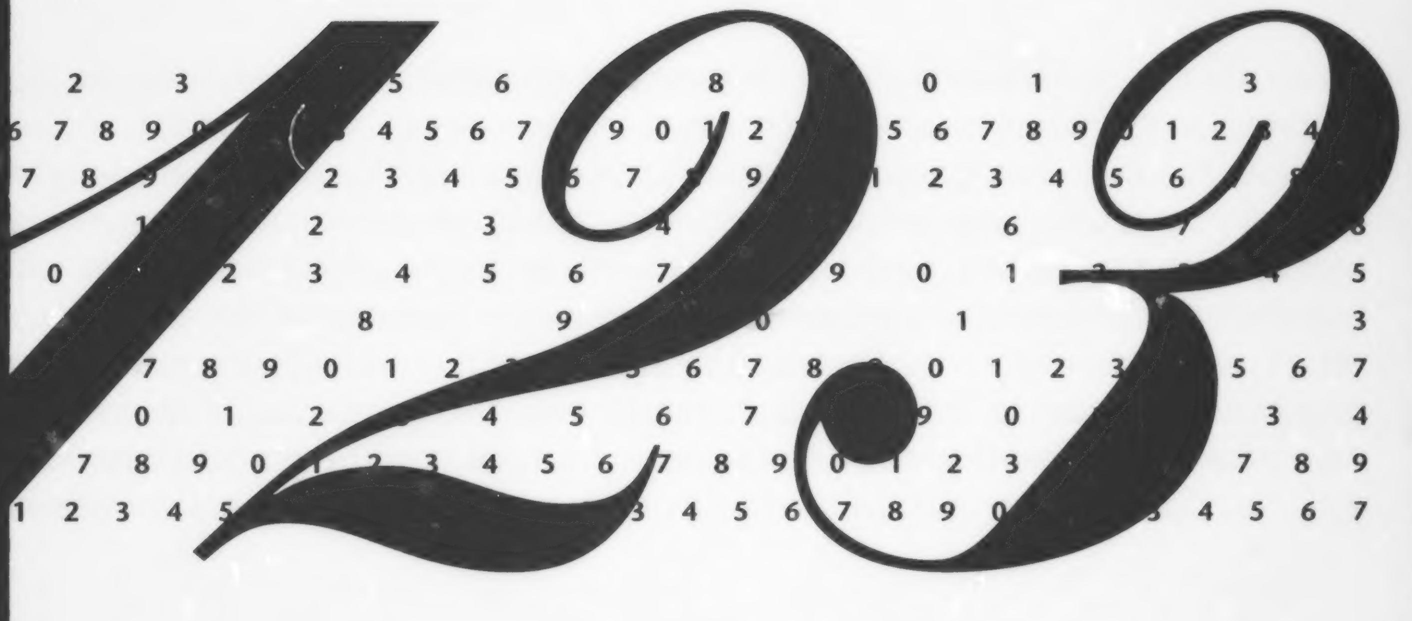
NOTES TO TABLE 18

In 1990, 25.0% of live births involved one or more perinatal complications.

- The most common complications were:
  - intrauterine hypoxia and birth asphyxia — 37.7% of complications;
  - short gestation and unspecified low birth weight — 20.5% of complications;
  - long gestation and high birth weight — 18.3% of complications;
  - complications of pregnancy, labour and delivery — 14.4% of complications.

- There were more complications in male babies (26.5%) than in female babies (23.4%).

Death-related Statistics



Summary

This section deals exclusively with statistics arising from death events. Tables and figures have been included that contain information about deaths by age, gender and cause. Of particular interest are the topics of infant mortality, AIDS, alcohol-related deaths and deaths from external causes. Mortality statistics are also given in terms of age standardized rates and ratios, and potential years of life lost. These measures are used to compare deaths in different geographical areas by age, gender and cause. A number of maps have been used to illustrate how patterns of mortality differ geographically in British Columbia.

Summary statistics relating to death events in 1990 are:

- there were 23,389 deaths to residents of British Columbia which occurred in the Province;
- the crude death rate was at 7.5 per 1,000 population, the same as 1989;
- heart disease and malignant neoplasms (cancer) remained the leading causes of death, accounting for 27.2% (6,364) and 26.6% (6,214), respectively, of all deaths;
- cerebrovascular disease (e.g. stroke) continued to be the third leading cause of death, accounting for 8.2% (1,919) of all deaths;
- accidents remained as the fourth leading cause of death, accounting for 6.0% (1,412) of all deaths;
- there were 567 motor vehicle accidental deaths; nearly 75% (422) of these were males;
- there were 800 alcohol-related deaths; nearly 75% (587) of these were males;
- infant deaths (328) continued to decline to 7.2 per 1,000 live births;
- 57.0% (187) of all infant deaths occurred to low birth weight (<2,500 grams) babies, 140 of these deaths occurred to very low birth weight (<1,500 grams) babies;
- the infant mortality rate for babies born to teenage mothers was 13.8 per 1,000 live births, nearly twice the provincial rate;
- AIDS and HIV-related deaths continued to increase, and are now the tenth leading cause of death in the Province, with 176 such deaths in 1990, up from 136 in 1989; the number of deaths related to AIDS has doubled since 1987;
- autopsies were performed for approximately 23% (5,466) of all deaths, with coroner investigations taking place for 16% (3,742) of deaths;
- there were 197 persons of 100 years or older who died in British Columbia in 1990 with the oldest being 113 years old; and,
- 75.7% (17,714) of deaths in 1990 occurred in hospitals, while 14.6% (3,415) of deaths occurred at home.

DEFINITION OF TERMS

AGE STANDARDIZED MORTALITY RATE (ASMR)

An age-adjusted mortality rate which has been standardized to a specific population (1971 Census Canada data are used in this report) for the purpose of rate comparisons for different time periods or different geographic locations. The rate is calculated as follows (see page 126 for an example using the formula):

$$\text{ASMR} = \frac{\Sigma m_i \times \pi_i}{\Sigma \pi_i} \times k$$

Where: π_i = standard population for age group i
m_i = age-specific mortality rate (d_i / p_i)
d_i = number of deaths in area for age group i
p_i = area population in age group i
k = a constant to convert to per k population, usually 1,000 or 10,000
x = multiplication
Σ = summation

INFANT MORTALITY

Death of a child under 1 year of age.

EARLY NEONATAL DEATH

Death of a child under 7 days of age.

NEONATAL DEATH

Death of a child under 28 days of age.

POST NEONATAL DEATH

Death of a child between the ages of 28 days to less than 1 year.

TABLE 19

CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9 Code	Cause of Death	Gender	Age Group										Total	Percent	ASMR
			< 1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80 +			
001-139	Infectious & parasitic diseases	M	1	1	-	-	-	4	132	64	30	23	255	2.0	1.3
		F	2	1	-	1	1	1	5	12	27	26	76	0.7	0.3
140-239	Neoplasms	M	3	4	5	4	1	2	111	819	1,651	761	3,361	26.5	15.2
		F	1	3	3	5	1	4	139	733	1,366	691	2,946	27.5	12.9
240-279	Endocrine/nutritional/metabolic diseases & immunity disorders	M	-	-	1	-	1	-	11	47	119	96	275	2.2	1.2
		F	-	-	2	-	-	1	10	43	124	146	326	3.0	1.3
280-289	Diseases of blood & blood-forming organs	M	-	-	-	-	-	-	2	4	15	20	41	0.3	0.2
		F	-	-	-	1	-	-	1	4	13	24	43	0.4	0.2
290-319	Mental disorders	M	-	1	-	1	-	1	21	43	42	61	170	1.3	0.8
		F	-	-	-		-	1	11	13	40	137	202	1.9	0.8
320-389	Diseases of the nervous system & sense organs	M	3	-	1	1	6	3	22	38	111	105	290	2.3	1.3
		F	1	1	-	1	3	-	13	31	108	134	292	2.7	1.2
390-459	Diseases of the circulatory system	M	1	-	1	-	-	5	99	760	2,042	1,795	4,703	37.1	20.6
		F	2	3	-	1	3	1	45	256	1,381	2,562	4,254	39.8	15.9
460-519	Diseases of the respiratory system	M	2	3	2	-	1	1	18	90	481	615	1,213	9.6	5.2
		F	2	-	1	2	-	3	4	62	307	589	970	9.1	3.6
520-579	Diseases of the digestive system	M	1	-	3	-	1	-	31	127	174	126	463	3.6	2.2
		F	-	-	-	-	-	1	19	70	130	216	436	4.1	1.8
580-629	Diseases of the genitourinary system	M	-	-	-	-	-	-	3	16	51	97	167	1.3	0.7
		F	-	1	-	-	-	1	1	18	43	97	161	1.5	0.6
630-676	Complications of pregnancy, childbirth & the puerperium	M	-	-	-	-	-	-	-	-	-	-	-	-	0.0
		F	-	-	-	-	-	-	1	-	-	-	1	0.0	0.0
680-709	Diseases of the skin & subcutaneous tissue	M	-	-	-	-	-	-	1	1	-	3	5	0.0	0.0
		F	-	-	-	-	-	-	-	2	3	9	14	0.1	0.1
710-739	Diseases of the musculoskeletal system & connective tissue	M	-	-	-	-	-	-	2	4	18	13	37	0.3	0.2
		F	-	-	-	-	-	-	4	8	38	33	83	0.8	0.3
740-759	Congenital anomalies	M	50	8	2	1	-	1	4	5	3	1	75	0.6	0.5
		F	28	9	2	3	1	1	5	3	3	4	59	0.6	0.4
760-779	Certain conditions originating in the perinatal period	M	83	-	1	-	-	-	-	-	1	-	85	0.7	0.6
		F	73	-	-	-	-	-	-	-	-	-	73	0.7	0.6
780-799	Symptoms, signs & ill-defined conditions	M	39	2	1	1	7	15	42	50	42	34	233	1.8	1.3
		F	31	3	1	-	3	5	19	25	44	77	208	1.9	1.0
E800-E999	External causes	M	3	14	16	18	89	128	532	247	148	121	1,316	10.4	7.5
		F	2	7	5	10	33	23	126	98	94	158	556	5.2	2.8
	TOTAL	**M**	**186**	**33**	**33**	**26**	**106**	**160**	**1,031**	**2,315**	**4,928**	**3,871**	**12,689**	**100.0**	**58.8**
		F	**142**	**28**	**14**	**24**	**45**	**42**	**403**	**1,378**	**3,721**	**4,903**	**10,700**	**100.0**	**43.7**

Note: ASMR — Age standardized mortality rate per 10,000 standard population.
Non-residents are excluded.

NOTES TO TABLE 19

In 1990 there were 23,389 deaths among British Columbians, including 12,689 males and 10,700 females.

- The age standardized mortality rate for males decreased from 59.9 in 1989 to 58.8 in 1990.
- The age standardized mortality rate for females remained at 43.7 in 1989 and 1990.
- Approximately two thirds of deaths for both males and females resulted from diseases of the circulatory system and neoplasms in 1990.
- External causes were much more prominent for males (1,316) than for females (556).
- Deaths from neoplasms, diseases of the circulatory system and diseases of respiratory system were more common in males than females.
- External causes were the principal causes of death for ages 1-44 years.

TABLE 20
TWELVE LEADING CAUSES OF DEATH
BRITISH COLUMBIA, 1989 AND 1990

Cause of Death (ICD9 Code)	1989			1990		
	Number	Rank	ASMR	Number	Rank	ASMR
Disease of Heart (390-398, 402, 404, 410-429)	6,319	1	13.4	6,364	1	13.0
Malignant Neoplasms (140-208)	6,161	2	14.0	6,214	2	13.7
Cerebrovascular Disease (430-438)	1,795	3	3.7	1,919	3	3.8
Accidents* (E800-E949, E970-E999)	1,199	4	3.4	1,412	4	3.9
Pneumonia (480-486)	943	5	1.9	993	5	1.9
Disease of Arteries (440-448)	563	6	1.2	586	6	1.2
Diabetes (250)	413	7	0.9	426	7	0.9
Suicide (E950-E959)	412	8	1.2	374	8	1.0
Chronic Liver Disease/Cirrhosis (571)	249	9	0.6	252	9	0.6
AIDS and HIV-Related (042-044)	136	12	0.4	176	10	0.5
Causes of Perinatal Mortality (760-779)	141	11	0.6	158	11	0.6
Emphysema (492)	170	10	0.4	135	12	0.3
Other	4,272	-	-	4,380	-	-
TOTAL (All Causes of Death)	**22,773**		**51.5**	**23,389**		**51.0**

Note: ASMR — Age standardized mortality rate per 10,000 standard population.
* Excludes suicide and homicide.
Non-residents are excluded.

NOTES TO TABLE 20/FIGURE 11

With the exception of suicide and emphysema, the number of deaths due to each of the twelve leading causes increased from 1989 to 1990. The overall age standardized mortality rate, however, dropped slightly.

- The majority of deaths, 53.8% (12,578), were due to diseases of the heart and malignant neoplasms (cancer).
- Deaths from AIDS and HIV-related factors increased in rank from twelfth to tenth. In total, AIDS and HIV-related deaths increased by nearly 30% between 1989 and 1990.

FIGURE 11

TWELVE LEADING CAUSES OF DEATH

BRITISH COLUMBIA, 1990

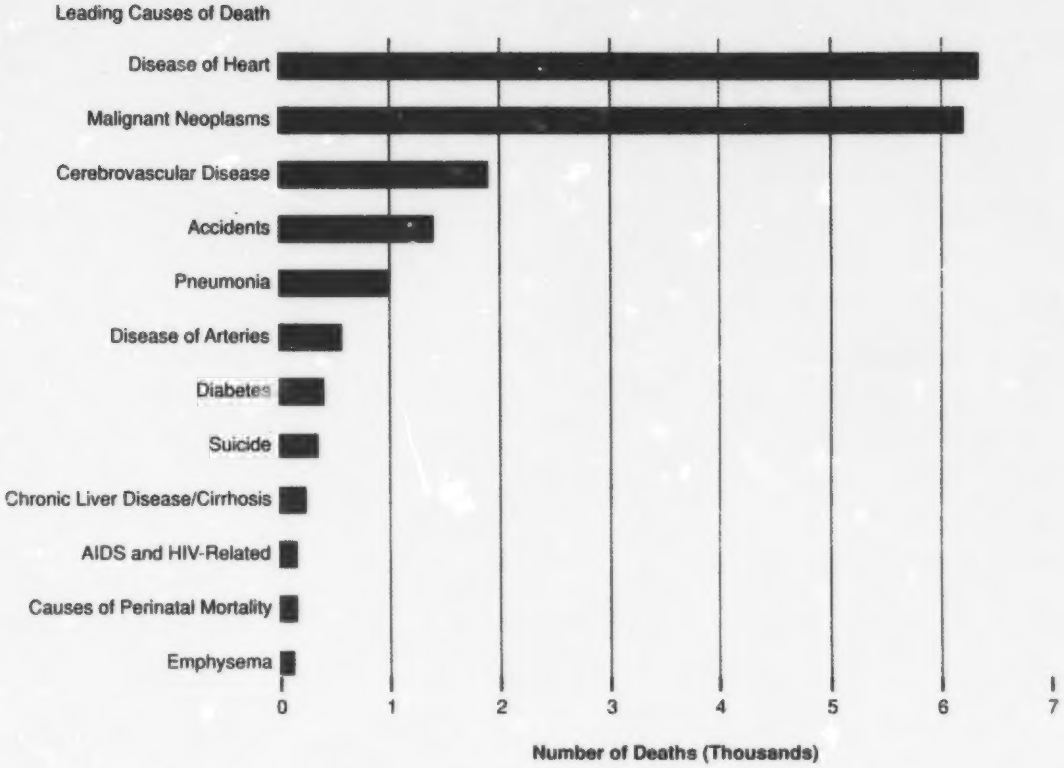


TABLE 21

LEADING CAUSES OF DEATH BY AGE GROUPS

BRITISH COLUMBIA, 1990

Cause of Death	ICD9 Code	Number	Percent
Under 1 Year Old			
1. Congenital Anomalies	740-759	78	23.8
2. Respiratory Conditions	768-770	70	21.3
3. Sudden Infant Death Syndrome	798	57	17.4
4. Maternal Conditions/Complications of Labour and Delivery	760-763	45	13.7
5. Immaturity/Prematurity	764-765	20	6.1
Other Causes		58	17.7
All Causes		328	100.0
1-14 Years Old			
1. Accidents(*)	E800-E949,E970-E999	67	42.4
2. Congenital Anomalies	740-759	25	15.8
3. Malignant Neoplasms	140-208	22	13.9
4. Respiratory Disease	460-519	8	5.1
5. Nervous System Disease	320-359	4	2.5
Other Causes		32	20.3
All Causes		158	100.0
15-24 Years Old			
1. Accidents(*)	E800-E949,E970-E999	206	58.4
2. Suicide	E950-E959	47	13.3
3. Homicide	E960-E969	20	5.7
4. Nervous System Disease	320-359	12	3.4
5. Cardiovascular Disease	390-429	8	2.3
Other Causes		60	17.0
All Causes		353	100.0
25-44 Years Old			
1. Accidents(*)	E800-E949,E970-E999	446	31.1
2. Malignant Neoplasms	140-208	242	16.9
3. Suicide	E950-E959	174	12.1
4. AIDS/HIV-Related	042-044	121	8.4
5. Cardiovascular Disease	390-429	91	6.3
Other Causes		360	25.1
All Causes		1,434	100.0
45-64 Years Old			
1. Malignant Neoplasms	140-208	1,537	41.6
2. Cardiovascular Disease	390-429	792	21.4
3. Accidents(*)	E800-E949,E970-E999	242	6.6
4. Digestive System Disease	520-579	197	5.3
5. Cerebrovascular Disease	430-438	166	4.5
Other Causes		759	20.5
All Causes		3,693	100.0

(concluded on page 71)

TABLE 21 – *concluded*
LEADING CAUSES OF DEATH BY AGE GROUPS
BRITISH COLUMBIA, 1990

Cause of Death	ICD9 Code	Number	Percent
65-84 Years Old			
1. Malignant Neoplasms	140-208	3,773	31.1
2. Cardiovascular Disease	390-429	3,699	30.4
3. Respiratory Disease	460-519	1,188	9.8
4. Cerebrovascular Disease	430-438	1,017	8.4
5. Digestive System Disease	520-579	435	4.6
Other Causes		2,039	16.8
All Causes		12,151	100.0
85 Years and Older			
1. Cardiovascular Disease	390-429	1,826	34.6
2. Respiratory Disease	460-519	804	15.3
3. Cerebrovascular Disease	430-438	689	13.1
4. Malignant Neoplasms	140-208	631	12.0
5. Digestive System Disease	520-579	211	4.0
Other Causes		1,111	21.1
All Causes		5,272	100.0

Note: * Excludes suicide and homicide.
Cause of death categories may differ from other tables.
Total percentages may not add to 100 due to rounding.
Non-residents are excluded.

NOTES TO TABLE 21

The leading causes of death in 1990 varied substantially by age group.

- In infants (under 1 year old) congenital anomalies, followed closely by respiratory conditions, were the leading causes. Sudden Infant Death Syndrome (SIDS) was also important.
- Accidents were the leading cause of death for those in age groups covering years 1 through 44.
- Malignant neoplasms (cancer) and cardiovascular diseases were the leading causes of death for those in the 45 to 84 year age group.
- Cardiovascular diseases were the leading cause of death for those 85 years and older.
- AIDS and HIV-related deaths were most prevalent in the 25-44 year age group.

TABLE 22

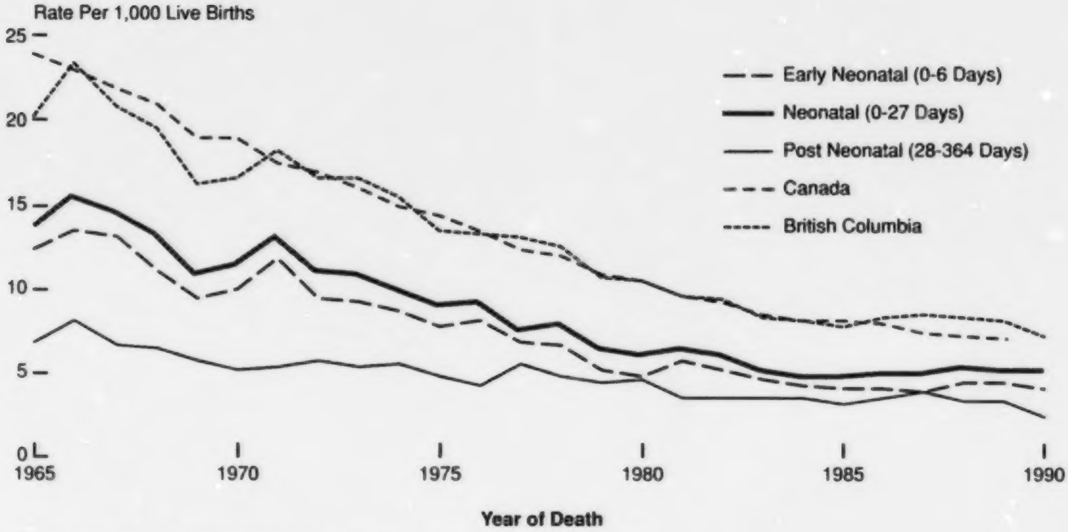
TRENDS OF INFANT MORTALITY

BRITISH COLUMBIA, 1965-1990

Birth Year	Age at Death							Total	
	0-6 Days		0-27 Days		28-364 Days				
	Number	Rate	Number	Rate	Number	Rate	N.S.	Number	Rate
1965	415	12.3	453	13.5	227	6.7	3	683	20.3
1966	435	13.4	494	15.2	263	8.1	4	761	23.4
1967	429	13.0	470	14.3	218	6.6	1	689	20.9
1968	375	11.1	438	13.0	214	6.4	4	656	19.5
1969	329	9.3	374	10.6	199	5.6	-	573	16.2
1970	369	10.0	416	11.3	193	5.2	2	611	16.6
1971	409	11.7	450	12.9	185	5.3	-	635	18.2
1972	322	9.3	373	10.8	195	5.6	1	569	16.5
1973	317	9.2	363	10.6	185	5.4	3	551	16.0
1974	310	8.7	348	9.8	196	5.5	2	546	15.4
1975	278	7.7	321	8.8	169	4.7	1	491	13.5
1976	292	8.1	324	9.0	152	4.2	2	478	13.3
1977	246	6.7	276	6.4	200	5.5	-	476	13.0
1978	245	6.6	286	7.7	178	4.8	-	464	12.5
1979	196	5.1	239	6.2	167	4.3	-	406	10.6
1980	188	4.7	235	5.9	186	4.6	-	421	10.5
1981	232	5.6	259	6.2	140	3.4	3	402	9.6
1982	217	5.1	251	5.8	150	3.5	-	401	9.3
1983	193	4.5	212	4.9	145	3.4	2	359	8.3
1984	184	4.2	205	4.6	150	3.4	1	356	8.1
1985	180	4.2	198	4.6	133	3.1	-	331	7.7
1986	166	4.0	196	4.7	147	3.5	-	343	8.2
1987	162	3.9	197	4.7	156	3.8	-	353	8.5
1988	189	4.4	219	5.1	136	3.2	-	355	8.3
1989	185	4.3	214	4.9	138	3.2	-	352	8.1
1990	186	4.1	224	4.9	104	2.3	-	328	7.2

Note: Rate per 1,000 live births in the specified year.
Infant mortality — Age at death less than one year.
Early neonatal death — Age at death less than seven days.
Neonatal death — Age at death less than twenty eight days.
Post neonatal death — Age at death twenty eight days to under one year.
The numbers for 1985-1989 include late registrations and corrections.
Non-residents are excluded.
N.S. - Not stated.

FIGURE 12
TRENDS OF INFANT MORTALITY
BRITISH COLUMBIA AND CANADA, 1965-1990



Note: Canada rate for 1990 was not available.
The numbers for 1985-1989 include late registrations and corrections.
Non-residents are excluded.

NOTES TO TABLE 22/FIGURE 12

Early neonatal (less than 7 days), neonatal (less than 28 days), and post neonatal (within 28 to 364 days) death rates have declined substantially over the past 30 years.

- The overall infant mortality rate has decreased from 20.3 in 1965 to 7.2 in 1990, the lowest ever recorded in the Province.
- 56.7% (186) of infant deaths in 1990 occurred less than 7 days after birth.
- The rate of infant mortality decrease in British Columbia generally parallels the decrease observed in Canada as a whole since the early 1970s.
- From 1986 through 1989, British Columbia showed a higher rate of infant mortality than the Canada rate.

TABLE 23
INFANT MORTALITY BY LOCAL HEALTH AREA
BRITISH COLUMBIA, 1985-1989 AND 1990

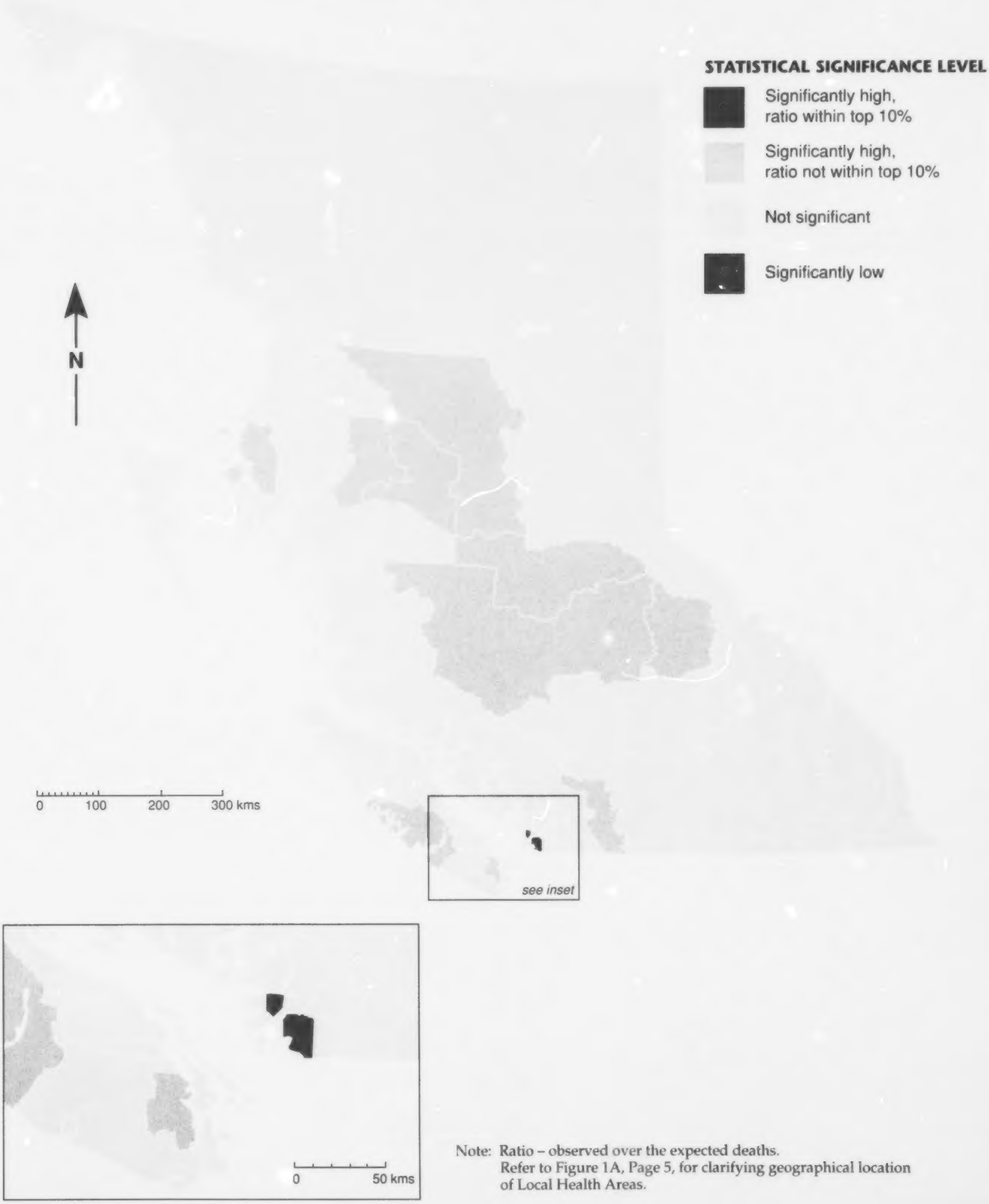
	1985-1989					1990				
						Age at Death (In days)			Total	
Local Health Area	Observed Deaths	Expected Deaths	Ratio	(p)	Rate	0-6	0-27	28-364	Number	Rate
01 Fernie	6	6.6	0.91		4.8	1	1	1	2	9.8
02 Cranbrook	7	9.6	0.73		4.7	1	1	1	2	7.4
03 Kimberley	5	2.2	2.23		10.8	-	-	-	-	-
04 Windermere	1	0.8	1.20		2.2	1	1	1	2	25.3
05 Creston	3	3.8	0.79		4.0	-	-	-	-	-
06 Kootenay Lake	3	0.4	7.95	+	15.2	-	-	-	-	-
07 Nelson	9	7.9	1.14		7.3	-	-	-	-	-
09 Castlegar	6	3.6	1.66		8.6	2	2	-	2	14.4
10 Arrow Lakes	0	2.1	-		-	-	-	-	-	-
11 Trail	7	6.5	1.07		5.2	-	-	-	-	-
12 Grand Forks	3	1.9	1.60		8.4	-	-	-	-	-
13 Kettle Valley	3	0.6	4.97	+	15.5	-	-	-	-	-
14 Southern Okanagan	8	5.0	1.62		10.5	-	-	-	-	-
15 Penticton	8	14.2	0.57		4.6	1	1	-	1	2.5
16 Keremeos	1	0.3	3.25		5.6	-	-	-	-	-
17 Princeton	3	1.0	3.12	+	10.9	-	-	1	1	20.4
18 Golden	3	1.9	1.62		5.3	-	1	1	2	18.9
19 Revelstoke	4	2.1	1.86		6.1	1	1	-	1	8.5
20 Salmon Arm	4	9.2	0.44		2.8	1	2	-	2	7.8
21 Armstrong-Spallumcheen	4	1.4	2.78	+	9.9	-	1	-	1	
22 Vernon	30	23.2	1.29		10.5	2	3	1	4	6.6
23 Central Okanagan	53	45.5	1.17		9.5	5	6	2	8	6.2
24 Kamloops	41	43.5	0.94		7.7	5	5	1	6	5.7
26 North Thompson	5	2.0	2.57	*	12.6	1	1	-	1	14.1
27 Cariboo-Chilcotin	37	24.9	1.49	*	12.1	1	2	-	2	3.4
28 Quesnel	25	15.6	1.60	*	13.0	4	4	1	5	14.3
29 Lillooet	7	3.5	2.02		16.4	-	-	-	-	-
30 South Cariboo	8	4.8	1.67		13.5	-	-	1	1	8.0
31 Merritt	7	5.6	1.25		8.4	-	-	-	-	-
32 Hope	7	3.3	2.11	*	13.8	-	-	-	-	-
33 Chilliwack	19	28.9	0.66		5.4	3	3	1	4	4.7
34 Abbotsford	39	47.8	0.82		6.6	-	-	3	3	2.3
35 Langley	42	49.0	0.86		7.0	3	3	5	8	6.1
36 Surrey	112	147.0	0.76	*	6.2	16	18	10	28	6.3
37 Delta	32	43.3	0.74		6.0	3	4	2	6	4.9
38 Richmond	58	66.1	0.88		7.1	5	5	2	7	4.2
39 Vancouver	259	232.1	1.12		9.1	30	40	11	51	8.6
40 New Westminster	29	21.6	1.34		10.9	2	2	-	2	3.5
41 Burnaby	50	78.5	0.64	*	5.2	6	8	1	9	4.5
42 Maple Ridge	34	33.6	1.01		8.2	4	4	2	6	5.7
43 Coquitlam	77	82.7	0.93		7.6	8	10	1	11	5.0
44 North Vancouver	53	60.6	0.87		7.1	2	6	2	8	5.1
45 West Vancouver-Bowen Island	12	12.0	1.00		6.6	2	2	1	3	8.1
46 Sechelt	11	9.4	1.17		9.5	2	2	-	2	8.1
47 Powell River	13	10.1	1.28		10.5	2	2	-	2	8.3
48 Howe Sound	12	10.2	1.17		7.7	2	2	1	3	9.0
49 Central Coast	5	2.5	2.03		12.9	2	2	1	3	51.7
50 Queen Charlotte	5	3.9	1.29		8.6	1	1	-	1	11.5
52 Prince Rupert	24	14.7	1.64	*	13.3	7	7	3	10	24.3
54 Smithers	22	13.1	1.68	*	13.6	2	2	-	2	5.7
55 Burns Lake	11	5.5	1.98	*	16.1	-	-	-	-	-
56 Nechako	21	11.6	1.82	*	14.8	1	1	1	2	6.9
57 Prince George	63	64.0	0.98		8.0	14	15	7	22	14.2
59 Peace River South	19	17.1	1.11		7.3	1	1	1	2	4.0
60 Peace River North	15	20.1	0.75		6.1	2	3	7	10	21.0
61 Greater Victoria	75	84.6	0.89		7.2	9	12	4	16	7.4
62 Sooke	31	25.0	1.24		10.1	1	2	1	3	4.5
63 Saanich	15	17.7	0.85		6.9	1	2	-	2	4.0
64 Gulf Islands	3	2.4	1.25		6.6	-	1	1	2	18.0
65 Cowichan	32	21.5	1.49	*	12.1	1	1	3	4	6.5
66 Lake Cowichan	1	0.5	2.10		3.4	-	-	-	-	-
67 Ladysmith	12	7.2	1.67		13.6	1	1	2	3	17.2
68 Nanaimo	37	33.3	1.11		9.0	5	5	4	9	9.6
69 Qualicum	6	7.7	0.78		5.2	-	-	1	1	4.4
70 Alberni	33	19.0	1.73	*	14.1	5	5	4	9	20.5
71 Courtenay	18	17.3	1.04		6.8	4	5	3	8	14.4
72 Campbell River	20	19.9	1.00		8.2	2	3	-	3	6.0
75 Mission	17	17.5	0.97		7.9	2	2	2	4	9.0
76 Agassiz-Harrison	3	1.7	1.74		8.1	-	-	-	-	-
77 Summerland	0	3.3	-		-	-	-	-	-	-
78 Enderby	2	1.2	1.73		5.5	-	-	-	-	-
80 Kitimat	10	8.6	1.16		9.4	1	1	1	2	10.2
81 Fort Nelson	4	2.8	1.43		6.9	-	-	-	-	-
84 Vancouver Island West	4	1.2	3.28	+	11.0	-	-	1	1	14.3
85 Vancouver Island North	15	11.5	1.31		10.6	4	4	1	5	19.9
87 Stikine	3	0.3	9.22	+	30.0	-	-	-	-	-
88 Terrace	18	20.2	0.89		7.3	3	4	1	5	10.2
92 Nishga	1	0.3	3.33		5.1	-	-	1	1	38.5
94 Telegraph Creek	0	0.1	-		-	-	-	-	-	-
Provincial Total	**1,734**	**-**	**-**		**8.1**	**186**	**224**	**104**	**328**	**7.2**

Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p < 0.5$ two tailed).
+ Denotes significance based on less than five deaths. Rate per 1,000 live births in the specified Local Health Area. Ratio — observed over the expected deaths. LHA 93, Eutsuk, not shown due to no residential population. Non-residents are excluded.

FIGURE 13

INFANT MORTALITY BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1985-1989


STATISTICAL SIGNIFICANCE LEVEL
Significantly high, ratio within top 10%
Significantly high, ratio not within top 10%
Not significant
Significantly low
N
0
100
200
300 kms
see inset
0
50 kms

Note: Ratio – observed over the expected deaths.
Refer to Figure 1A, Page 5, for clarifying geographical location of Local Health Areas.

NOTES TO TABLE 23/FIGURE 13

The rate of infant mortality decreased from 8.1 for 1985-1989 to 7.2 deaths per 1,000 live births in 1990.

- Statistical testing indicated that several Local Health Areas (LHAs) had significantly higher infant mortality than expected over the 5 year period of 1985-1989.
- The LHAs with the highest statistically significant ratio of observed to expected infant deaths (1985-1989) where the number of deaths were five or more were:

– 26 North Thompson	2.57
– 32 Hope	2.11
– 55 Burns Lake	1.98
– 56 Nechako	1.82
– 70 Alberni	1.73
– 54 Smithers	1.68
– 52 Prince Rupert	1.64
– 28 Quesnel	1.60
– 27 Cariboo-Chilcotin	1.49
– 65 Cowichan	1.49

- Both 41-Burnaby (0.64) and 36-Surrey (0.76) LHAs showed significantly lower infant mortality than expected for the 1985-1989 period.
- For 1990, several LHAs had infant mortality rates higher than 20 deaths per thousand births, although in several cases, the number of deaths were low (number of deaths in parentheses):

– 49 Central Coast	51.7	(3)
– 92 Nishga	38.5	(1)
– 04 Windermere	25.3	(2)
– 52 Prince Rupert	24.3	(10)
– 60 Peace River North	21.0	(10)
– 70 Alberni	20.5	(9)
– 17 Princeton	20.4	(1)

Note: Some of the LHAs have statistically significant infant mortality ratios based on very small numbers of cases, so the information should be interpreted with caution.

TABLE 24
INFANT MORTALITY BY AGE OF MOTHER AND BIRTH WEIGHT
BRITISH COLUMBIA, 1990

Age of Mother	Birth Weight (In grams)				Total	
	<1500	1500-2499	2500+	N. S.	Number	Rate
< 20	15	8	13	-	36	13.8
20 - 24	26	10	31	-	67	7.4
25 - 29	48	10	47	-	105	6.4
30 - 34	29	13	22	-	64	5.1
35 - 39	21	5	9	-	35	8.2
40 +	1	1	2	1	5	8.7
N.S.	-	-	-	16	16	-
Total	**140**	**47**	**124**	**17**	**328**	**7.2**
Percent	**42.7**	**14.3**	**37.8**	**5.2**	**100.0**	

Note: Infant mortality — Age at death less than one year.
Rate per 1,000 live births in the specified age group.
N.S. - Not stated
Non-residents are excluded.

NOTES TO TABLE 24

- The greatest percentage of infant deaths, 57.0% (187) occurred to low birth weight babies (less than 2,500 grams), with the greatest majority 42.7% (140) occurring to very low birth weight babies (less than 1,500 grams).
- The mortality rate for infants born to teenage mothers was 13.8 per 1,000 live births, nearly twice the provincial rate of 7.2 per 1,000.
- The infant mortality rate was also relatively high for babies born to mothers who were aged 35 years or older.

TABLE 25

INFANT MORTALITY BY GESTATIONAL AGE AND BIRTH WEIGHT

BRITISH COLUMBIA, 1990

Gestational Age (in weeks)	Birth Weight (In grams)				Total	
	<1500	1500-2499	2500+	N. S.	Number	Rate
< 20	-	-	-	-	-	-
20 - 27	100	1	-	1	102	545.5
28 - 36	38	31	16	-	85	33.3
37 - 41	2	15	98	-	115	2.9
42 +	-	-	9	-	9	3.3
N.S.	-	-	1	16	17	-
TOTAL	**140**	**47**	**124**	**17**	**328**	**7.2**
Percent	**42.7**	**14.3**	**37.8**	**5.2**	**100.0**	

Note: Infant Mortality — Age at death less than one year.
Rate per 1,000 live births in the specified gestational age group.
N.S. - Not stated
Non-residents are excluded.

NOTES TO TABLE 25

- Slightly more than one half (170) of all infants who died under one year of age were both pre-term (less than 37 weeks gestation) and of low birth weight (less than 2,500 grams).
- Of infant deaths among both pre-term and low birth weight babies, 138 (81.2%) were very low birth weight (less than 1,500 grams).

TABLE 26
PERINATAL DEATHS BY CAUSE AND GENDER
BRITISH COLUMBIA, 1990

		Male		Female			Total	
Cause of Death	ICD9 Code(s)	Number	Rate	Number	Rate	N.S.	Number	Rate
Congenital Anomalies								
– of the Nervous System	740-742	8	0.3	13	0.6	-	21	0.5
– of the Heart and Circulatory System	745-747	11	0.5	5	0.2	-	16	0.4
– of the Respiratory System	748	5	0.2	3	0.1	-	8	0.2
– of the Digestive System	749-751	-	-	2	0.1	-	2	0.0
– of the Renal System	753	4	0.2	1	0.0	-	5	0.1
Musculoskeletal/Other Congenital Anomalies	743-744, 752, 754-757	5	0.2	2	0.1	-	7	0.2
Chromosomal Anomalies	758	8	0.3	7	0.3	-	15	0.3
Multiple Congenital Anomalies	759	7	0.3	4	0.2	3	14	0.3
Deaths due to Congenital Anomalies	**740-759**	**48**	**2.1**	**37**	**1.7**	**3**	**88**	**1.9**
Perinatal Complications								
Maternal Conditions Not Related to Pregnancy	760	11	0.5	3	0.1	-	14	0.3
Complications of Pregnancy, Labour, and Delivery	761, 763	22	0.9	16	0.7	-	38	0.8
Complications of Placenta, Cord, and Membranes	762	76	3.3	52	2.3	2	130	2.8
Slow Fetal Growth and Fetal Malnutrition	764	2	0.1	6	0.3	-	8	0.2
Short Gestation and Unspecified Low Birth Weight	765	13	0.5	19	0.9	-	32	0.7
Long Gestation and High Birth Weight	766	-	-	2	0.1	-	2	0.0
Birth Trauma	767	2	0.1	1	0.0	-	3	0.1
Intrauterine Hypoxia and Birth Asphyxia	768	13	0.6	11	0.5	1	25	0.5
Respiratory Conditions of Fetus and Newborn	769-770	17	0.7	24	1.1	-	41	0.9
Infections Specific to the Perinatal Period	771	5	0.2	-	-	-	5	0.1
Fetal and Neonatal Hemorrhage	772	2	0.1	-	-	-	2	0.0
Perinatal Jaundice/Other Hematological Disorders	773-774, 776	2	0.1	-	-	-	2	0.0
Perinatal Digestive System Disorders	777	1	0.0	-	-	-	1	0.0
Integument and Temperature Regulation Disorders	778	2	0.1	2	0.1	-	4	0.1
Deaths Due to Perinatal Complications	**760-778**	**168**	**7.1**	**136**	**6.1**	**3**	**307**	**6.7**
Unknown	779, 798-799	40	1.7	35	1.6	1	76	1.7
All Others		4	0.2	3	0.1	-	7	0.2
Total		**260**	**11.1**	**211**	**9.5**	**7**	**478**	**10.5**

Note: Perinatal deaths denote stillbirths and early neonatal deaths (age at death less than seven days).
Rates per 1,000 total births.
Non-residents are excluded.
N.S. - Not stated.

NOTES TO TABLE 26

There were 478 perinatal deaths in B.C. in 1990, 10.5 per 1,000 total births.

- Perinatal complications accounted for 64.2% (307) of these deaths, while congenital anomalies accounted for 18.4% (88).
- The leading causes of perinatal death due to congenital anomalies:
  - nervous system anomalies (21 deaths);
  - heart and circulatory system anomalies (16 deaths); and,
  - chromosomal anomalies (15 deaths).
- The major perinatal complications:
  - complications of placenta, cord and membranes (130 deaths);
  - respiratory conditions of fetus and newborn (41 deaths); and,
  - complications of pregnancy, labour and delivery (38 deaths).

DEFINITION OF TERMS

AIDS

Acquired Immunodeficiency Syndrome. In 1987, the World Health Organization, in recognition of AIDS and HIV as important health concerns, created new ICD9 codes which allowed AIDS (042) and HIV (043-044) to be uniquely identified as causes of death and also provided differentiation among the complications of AIDS.

HIV

Human Immunodeficiency Virus, the virus which causes AIDS.

TABLE 27

AIDS AND HIV-RELATED DEATHS BY AGE AND GENDER

BRITISH COLUMBIA, 1987-1990

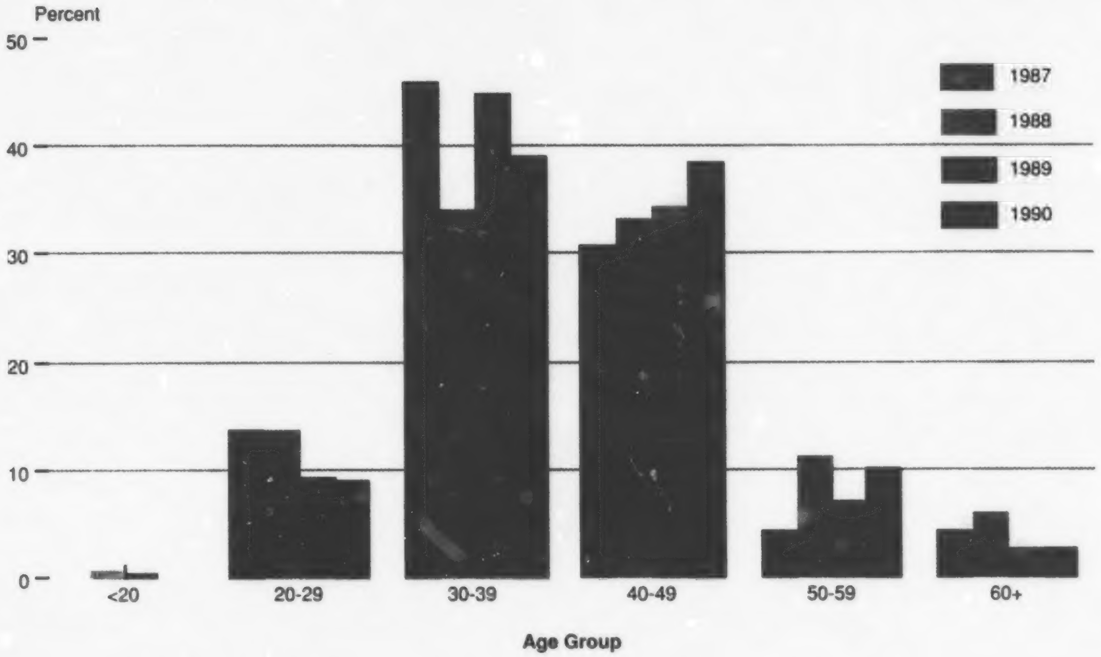
Age Group	1987				1988				1989				1990			
	Male	Female	Total	Percent	Male	Female	Total	Percent	Male	Female	Total	Percent	Male	Female	Total	Percent
< 20	-	-	-	-	-	1	1	0.9	-	1	1	0.7	-	-	-	-
20 - 29	12	-	12	13.8	15	1	16	14.0	11	2	13	9.6	15	1	16	9.1
30 - 39	40	-	40	46.0	39	-	39	34.2	60	1	61	44.9	69	-	69	39.2
40 - 49	25	2	27	31.0	37	1	38	33.3	47	-	47	34.6	67	1	68	38.6
50 - 59	4	-	4	4.6	12	1	13	11.4	9	1	10	7.3	16	2	18	10.2
60 +	4	-	4	4.6	7	-	7	6.1	4	-	4	2.9	5	-	5	2.8
Total	**85**	**2**	**87**	**100.0**	**110**	**4**	**114**	**100.0**	**131**	**5**	**136**	**100.0**	**172**	**4**	**176**	**100.0**

Note: Non-residents are excluded.
Percentage may not add to 100 due to rounding.

FIGURE 14

AIDS AND HIV-RELATED DEATHS BY AGE GROUP

BRITISH COLUMBIA, 1987-1990



NOTES TO TABLE 27/FIGURE 14

The total AIDS and HIV-related deaths in British Columbia have increased substantially each year since 1987 and doubled between 1987 and 1990.

- The vast majority of deaths occurred among males. Only 15 of the 513 deaths in the 1987 to 1990 period were females.
- The majority of deaths occurred among males between 30 and 49 years of age.
- The proportion of deaths in the 40-49 age group has increased steadily.
- The proportion of deaths in the 20-29 age group has fallen.

TABLE 28

AIDS AND HIV-RELATED DEATHS BY HEALTH UNIT

BRITISH COLUMBIA, 1987-1990

Health Unit	1987	1988	1989	1990	1987 - 1990		
					Number	Percent	Rate
01 East Kootenay	-	-	-	-	-	-	-
02 Central Kootenay	1	-	-	2	3	0.6	1.1
04 North Okanagan	-	1	-	1	2	0.4	0.6
05 South Okanagan	2	2	1	1	6	1.2	1.0
06 South Central	2	-	-	2	4	0.8	1.0
07 Upper Fraser Valley	-	-	3	2	5	1.0	0.9
08 Central Fraser Valley	3	3	3	3	12	2.3	1.9
09 Boundary	2	3	7	6	18	3.5	1.5
10 Simon Fraser	1	1	7	11	20	3.9	3.0
11 Coast-Garibaldi	1	2	1	-	4	0.8	1.9
13 Central Vancouver Island	2	1	4	-	7	1.4	1.0
14 Upper Vancouver Island	1	3	-	2	6	1.2	1.7
15 Cariboo	-	1	-	-	1	0.2	0.4
16 Skeena	-	-	-	-	-	-	-
17 Peace River	-	-	-	-	-	-	-
18 Northern Interior	-	3	-	1	4	0.8	0.9
20 Capital Regional District	5	6	11	9	31	6.0	2.8
30 Vancouver	52	74	86	115	327	63.7	18.1
31 Burnaby	5	4	7	3	19	3.7	3.2
32 Richmond	5	4	-	6	15	2.9	3.2
33 North Shore	5	6	6	12	29	5.7	4.7
Provincial Total	**87**	**114**	**136**	**176**	**513**	**100.0**	**4.2**

Note: Health Unit based on usual residence.
Rate per 100,000 population.
Non-residents are excluded.
Percentage may not add to 100 due to rounding.

NOTES TO TABLE 28

The vast majority of AIDS and HIV-related deaths have occurred to residents of the lower mainland and southern Vancouver Island.

- The greatest number of AIDS and HIV-related deaths occurred to residents of the city of Vancouver, which had by far the highest rate of AIDS and HIV-related deaths for 1987-1990. The Health Units with the highest rates:

– 30 Vancouver	18.1
– 33 North Shore	4.7
– 32 Richmond	3.2
– 31 Burnaby	3.2

- Residents of the Capital Regional District, North Shore and Simon Fraser Health Units have also experienced notable numbers of AIDS and HIV-related deaths.
- In a few Health Units, there were no residents that had AIDS and HIV-related deaths.

Note: Many individuals who might normally have resided outside of the lower mainland may have moved to the Vancouver area on a permanent basis to be close to treatment facilities in the Vancouver area.

DEFINITION OF TERMS

STANDARDIZED MORTALITY RATIO (SMR)

The ratio of the number of deaths occurring in a specified area (LHA) to the expected number of deaths in that area. The SMR is a good measure when comparing mortality data that are based on a small number of cases or when geographical comparisons are being made.

$$\text{SMR} = \frac{\Sigma d_i}{\Sigma e_i}$$

Where: d_i = observed deaths in age group i
e_i = expected deaths in age group i
Σ = summation

OBSERVED DEATHS

The actual number of deaths that occurred in the LHA.

EXPECTED DEATHS

The number of deaths expected for an LHA based upon the age-specific mortality rates for the province as a whole and the population age structure of the LHA. For age group i the expected deaths (e_i) are:

$$e_i = \mu_i \times p_i$$

Where: μ_i = provincial mortality rate for age group i
p_i = LHA population in age group i

CONFIDENCE INTERVAL

The confidence interval is a statistical measure that defines a range of values for a given probability (confidence level) that the LHA SMR measured for any given time period is not significantly different from the true values falling within the range. A 95% confidence level is employed in the tables in this report.

P-VALUE

The value selected at which it is felt that the difference of observed values from the expected value are statistically significant, e.g. a p-value of 0.05 for a two tailed test (test for both higher and lower values) of the SMR for a LHA would be considered to be different from the expected value less than 5% of the time due to random error (alternatively, the difference is considered to be significantly different 95% of the time).

Note: For a more complete description of the calculation of these measures see the examples in the Glossary.

TABLE 29

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA
ALL CAUSES OF DEATH

BRITISH COLUMBIA, 1985-1989 AND 1990

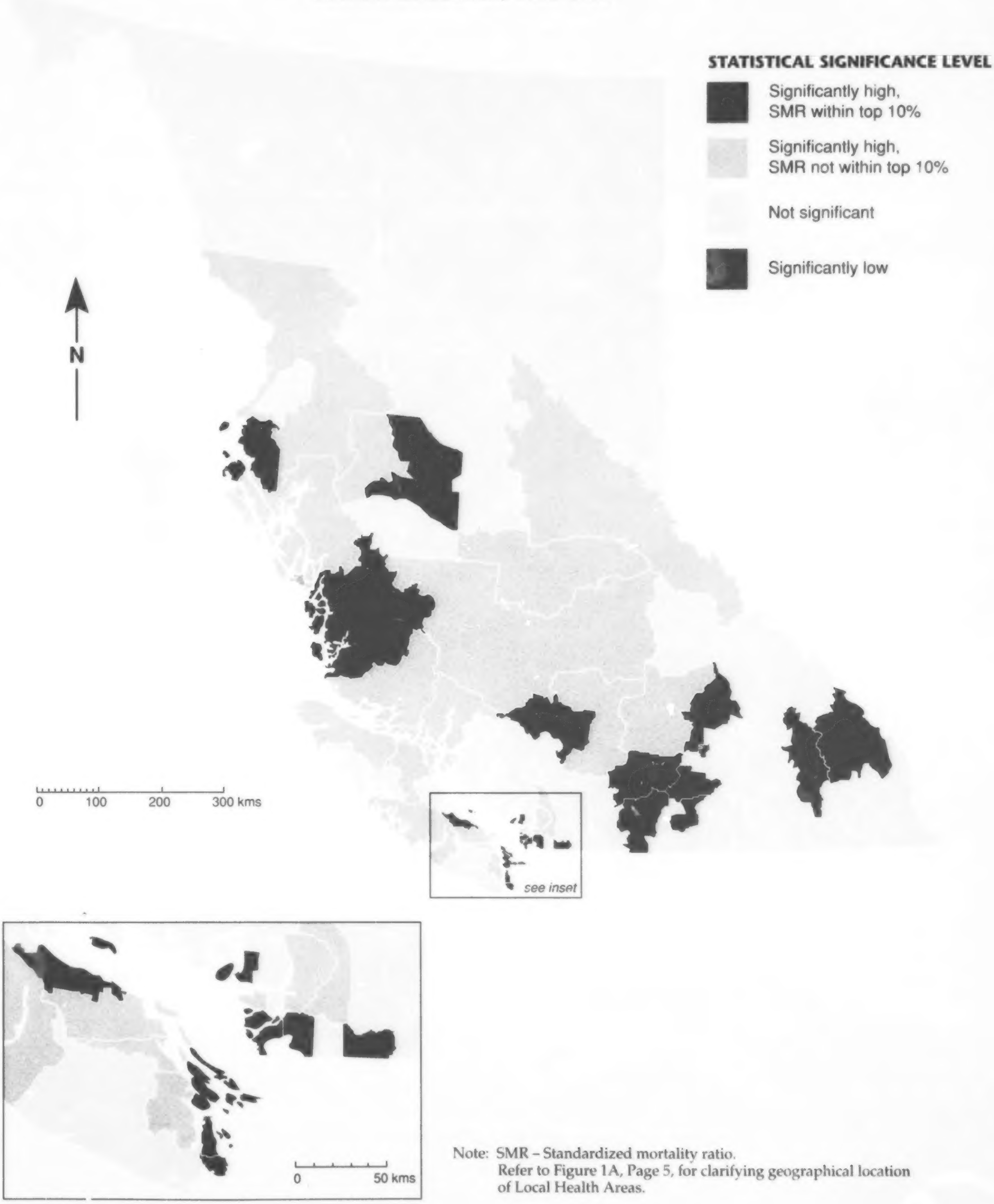
	1985-1989		1990			95% Confidence Interval		
Local Health Area	Observed Deaths	SMR (p)	Observed Deaths	Expected Deaths	SMR (p)	Lower		Upper
01 Fernie	337	1.00	71	68.2	1.04	0.82	:	1.32
02 Cranbrook	586	1.04	123	112.3	1.10	0.91	:	1.31
03 Kimberley	345	1.07	82	71.7	1.14	0.91	:	1.42
04 Windermere	135	0.75 *	31	36.4	0.85	0.59	:	1.22
05 Creston	548	0.94	103	136.9	0.75 *	0.62	:	0.92
06 Kootenay Lake	106	0.70 *	25	35.7	0.70	0.46	:	1.04
07 Nelson	818	0.98	182	178.6	1.02	0.88	:	1.18
09 Castlegar	383	0.96	82	88.5	0.93	0.74	:	1.15
10 Arrow Lakes	184	0.94	49	44.6	1.10	0.82	:	1.46
11 Trail	898	1.06	210	182.0	1.15 *	1.00	:	1.32
12 Grand Forks	382	1.10	88	77.1	1.14	0.92	:	1.41
13 Kettle Valley	104	0.90	26	24.1	1.08	0.71	:	1.60
14 Southern Okanagan	817	0.96	149	189.2	0.79 *	0.67	:	0.93
15 Penticton	1,507	0.88 *	334	393.9	0.85 *	0.76	:	0.94
16 Keremeos	184	0.91	43	46.5	0.92	0.67	:	1.25
17 Princeton	209	1.30 *	43	33.9	1.27	0.93	:	1.72
18 Golden	135	0.91	34	29.4	1.16	0.81	:	1.63
19 Revelstoke	241	1.11	51	44.9	1.14	0.85	:	1.50
20 Salmon Arm	909	0.84 *	215	231.9	0.93	0.81	:	1.06
21 Armstrong-Spallumcheen	231	0.84 *	54	60.3	0.89	0.68	:	1.17
22 Vernon	1,737	0.95	402	379.9	1.06	0.96	:	1.17
23 Central Okanagan	3,768	0.86 *	800	972.9	0.82 *	0.77	:	0.88
24 Kamloops	2,246	1.08 *	462	418.8	1.10 *	1.01	:	1.21
26 North Thompson	117	1.18	26	21.8	1.19	0.79	:	1.77
27 Cariboo-Chilcotin	928	1.20 *	187	153.8	1.22 *	1.05	:	1.41
28 Quesnel	637	1.21 *	125	102.2	1.22 *	1.02	:	1.46
29 Lillooet	167	1.32 *	42	25.7	1.64 *	1.19	:	2.23
30 South Cariboo	252	1.21 *	67	43.0	1.56 *	1.21	:	1.99
31 Merritt	324	1.30 *	77	51.4	1.50 *	1.19	:	1.88
32 Hope	255	1.10	54	47.6	1.13	0.86	:	1.49
33 Chilliwack	1,981	1.02	431	429.1	1.00	0.91	:	1.10
34 Abbotsford	2,417	0.87 *	561	593.5	0.95	0.87	:	1.03
35 Langley	2,161	0.98	564	469.4	1.20 *	1.11	:	1.31
36 Surrey	6,764	0.96 *	1,550	1499.1	1.03	0.98	:	1.09
37 Delta	1,925	0.94 *	458	433.8	1.06	0.96	:	1.16
38 Richmond	2,956	0.91 *	718	695.9	1.03	0.96	:	1.11
39 Vancouver	21,111	1.05 *	4,163	4267.4	0.98	0.95	:	1.01
40 New Westminster	2,242	1.07 *	475	482.6	0.98	0.90	:	1.08
41 Burnaby	6,015	1.00	1,191	1284.7	0.93 *	0.88	:	0.98
42 Maple Ridge	1,582	1.08 *	350	310.1	1.13 *	1.01	:	1.25
43 Coquitlam	3,087	1.05 *	666	612.3	1.09 *	1.01	:	1.17
44 North Vancouver	3,451	1.02	680	711.3	0.96	0.89	:	1.03
45 West Vancouver-Bowen Is.	1,924	0.86 *	434	503.7	0.86 *	0.78	:	0.95
46 Sechelt	796	1.01	186	174.1	1.07	0.92	:	1.24
47 Powell River	709	1.03	168	145.7	1.15	0.99	:	1.34
48 Howe Sound	325	1.05	69	68.1	1.01	0.79	:	1.29
49 Central Coast	115	1.65 *	20	15.1	1.33	0.83	:	2.08
50 Queen Charlotte	120	1.20	27	20.7	1.31	0.87	:	1.92
52 Prince Rupert	486	1.31 *	100	73.1	1.37 *	1.12	:	1.67
54 Smithers	323	1.21 *	65	55.7	1.17	0.91	:	1.49
55 Burns Lake	203	1.28 *	35	30.8	1.14	0.80	:	1.59
56 Nechako	350	1.11	92	64.0	1.44 *	1.16	:	1.77
57 Prince George	1,812	1.22 *	395	296.4	1.33 *	1.21	:	1.47
59 Peace River South	651	1.08	118	119.8	0.98	0.82	:	1.18
60 Peace River North	501	1.08	133	93.3	1.42 *	1.20	:	1.69
61 Greater Victoria	10,111	0.94 *	2,148	2428.9	0.88 *	0.85	:	0.92
62 Sooke	1,063	0.94	230	242.9	0.95	0.83	:	1.08
63 Saanich	1,577	0.83 *	377	400.3	0.94	0.85	:	1.04
64 Gulf Islands	481	0.86 *	95	131.3	0.72 *	0.59	:	0.89
65 Cowichan	1,439	1.06 *	314	289.4	1.08	0.97	:	1.21
66 Lake Cowichan	144	0.96	34	29.3	1.16	0.81	:	1.63
67 Ladysmith	617	1.09 *	135	123.4	1.09	0.92	:	1.30
68 Nanaimo	2,492	1.07 *	525	497.0	1.06	0.97	:	1.15
69 Qualicum	1,137	0.93 *	271	265.8	1.02	0.90	:	1.15
70 Alberni	998	1.17 *	198	185.2	1.07	0.93	:	1.23
71 Courtenay	1,367	1.01	304	287.6	1.06	0.94	:	1.18
72 Campbell River	810	1.09 *	195	154.4	1.26 *	1.09	:	1.46
75 Mission	891	1.03	186	187.9	0.99	0.85	:	1.14
76 Agassiz-Harrison	178	0.97	42	39.1	1.07	0.78	:	1.46
77 Summerland	530	0.98	121	124.1	0.97	0.81	:	1.17
78 Enderby	256	1.09	58	48.5	1.20	0.91	:	1.55
80 Kitimat	212	1.17 *	45	36.6	1.23	0.90	:	1.65
81 Fort Nelson	68	1.11	18	10.6	1.70 *	1.03	:	2.72
84 Vancouver Island West	48	1.07	16	9.3	1.73 *	1.01	:	2.85
85 Vancouver Island North	265	1.28 *	44	42.7	1.03	0.76	:	1.39
87 Stikine	34	1.26	10	4.3	2.33 *	1.17	:	4.40
88 Terrace	528	1.17 *	122	89.3	1.37 *	1.14	:	1.64
92 Nishga	39	1.37	5	5.7	0.88	0.31	:	2.14
94 Telegraph Creek	17	1.49	2	2.8	0.72	0.11	:	2.83
Provincial Total	**106,799**	-	**23,381**	-	-	-	-	

Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$ two tailed) LHA 93, Eutsuk, not shown due to no residential population. Cases with unknown age, gender or non-residents are excluded.

FIGURE 15

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA ALL CAUSES OF DEATH

BRITISH COLUMBIA, 1985-1989


STATISTICAL SIGNIFICANCE LEVEL
Significantly high, SMR within top 10%
Significantly high, SMR not within top 10%
Not significant
Significantly low
N
0
100
200
300 kms
see inset
0
50 kms

Note: SMR – Standardized mortality ratio.
Refer to Figure 1A, Page 5, for clarifying geographical location of Local Health Areas.

NOTES TO TABLE 29/FIGURE 15

It is noted that a number of Local Health Areas (LHAs) had standardized mortality ratios (SMRs) that were statistically significantly higher or lower than the expected values.

- 12 LHAs experienced significantly higher observed than expected deaths from all causes in both the 5 year period (1985-1989) and 1990, respectively. The three LHAs with the highest SMRs were:
  - 29 Lillooet SMRs = 1.32, 1.64
  - 52 Prince Rupert SMRs = 1.31, 1.37
  - 31 Merritt SMRs = 1.30, 1.50
- 5 LHAs experienced significantly lower observed than expected deaths from all causes in both the 5 year period (1985-1989) and 1990, respectively. The three LHAs with the lowest SMRs:
  - 45 West Vancouver-Bowen Island SMRs = 0.86, 0.86
  - 64 Gulf Islands SMRs = 0.86, 0.72
  - 23 Central Okanagan SMRs = 0.86, 0.82
- In 1990, there were 7 LHAs with significantly high SMRs that were not significant in the previous 5 year period. The 3 highest LHAs were:
  - 87 Stikine SMR = 2.33
  - 84 Vancouver Island West SMR = 1.73
  - 81 Fort Nelson SMR = 1.70
- In 1990, there were only 3 LHAs with significantly low SMRs that were not significant in the previous 5 year period:
  - 05 Creston SMR = 0.75
  - 14 Southern Okanagan SMR = 0.79
  - 41 Burnaby SMR = 0.93
- There were no LHAs that were significantly high in the 5 year period which became significantly low in 1990.
- Similarly, there were no LHAs that were significantly low in the 5 year period which became significantly high in 1990.

DEFINITION OF TERMS

POTENTIAL YEARS OF LIFE LOST (PYLL)

The number of years of life lost when a person dies before the age of 75 years (assumed to be the maximum normal age). In this report, all deaths are assumed to occur at the midpoint of five year age groups. Potential years of life lost is calculated as follows:

$$\text{PYLL} = \Sigma d_i \times (75 - Y_i)$$

Where: d_i = number of deaths in age group i
Y_i = age at midpoint of age group i
x = multiplication
Σ = summation

PYLL STANDARDIZED RATE (PYLLSR)

An age standardized measure of an area's PYLL, expressed in terms of per k population, utilizing a standard population (in this report, 1971 Canada Census population). The general formula is as follows:

$$\text{PYLLSR} = \frac{\Sigma m_i \times \pi_i \times (75 - Y_i)}{\Sigma \pi_i} \times k$$

Where: p_i = area population in age group i
π_i = standard population in age group i
d_i = deaths in area population in age group i
m_i = d_i/p_i = mortality rate in area age group i
k = a rate conversion factor, most commonly 1,000 or 10,000
Y_i = midpoint age of age group i

PYLL INDEX (PYLLI)

The ratio of an area's total PYLL to its expected PYLL.

Note: For a more complete description of the calculation of these measures see the examples in the Glossary.

TABLE 30

POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY CAUSES OF DEATH

BRITISH COLUMBIA, 1990

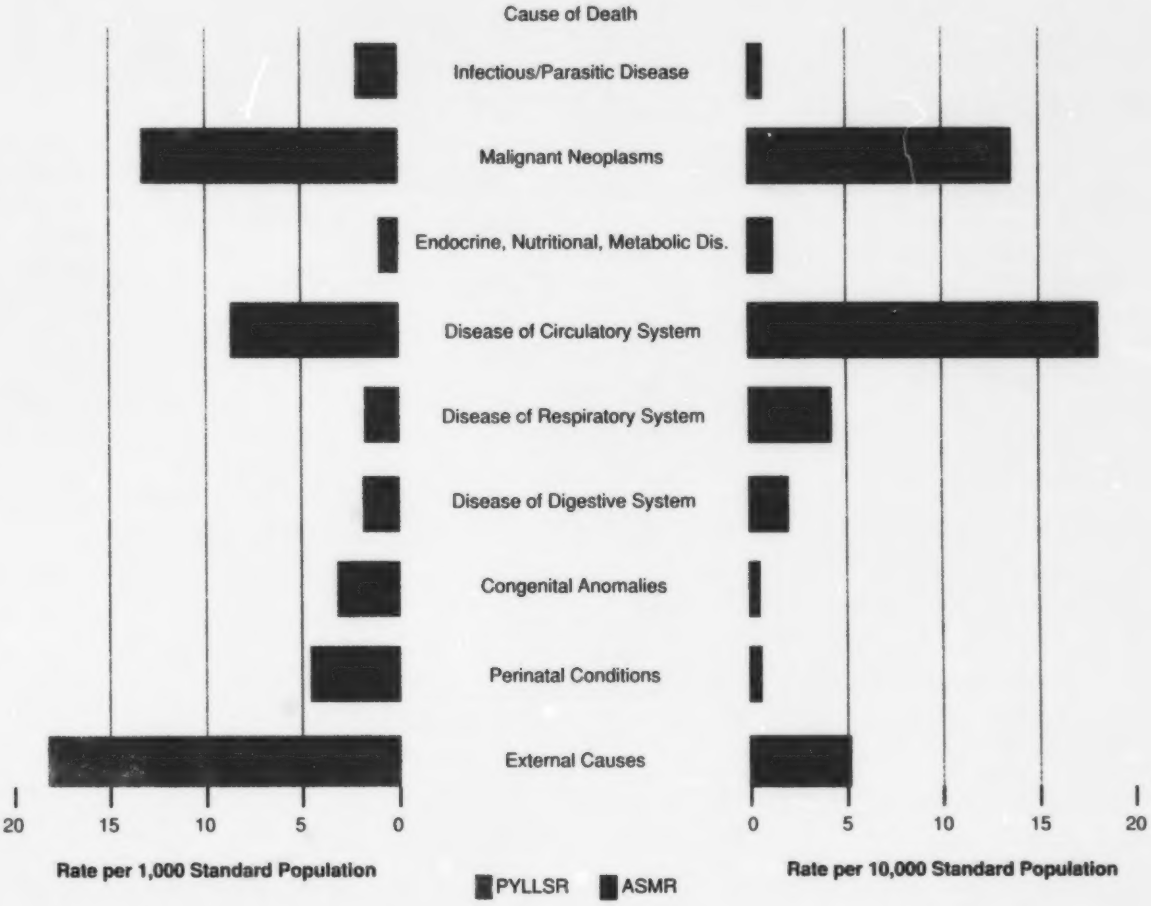
		PYLL (Age Under 75 Years)					Mortality (All Ages)		
Cause of Death	ICD9 Code	No. of Deaths	Total PYLL	Percent of PYLL	Average PYLL	PYLLSR	No. of Deaths	Percent of Deaths	ASMR
Infectious/Parasitic Disease	001-139	265	7,863	3.9	29.7	2.2	331	1.4	0.8
– AIDS/HIV-Related	042-044	176	6,040	3.0	34.3	1.6	176	0.8	0.5
Malignant Neoplasms	140-208	3,789	47,661	23.8	12.6	13.4	6,214	26.6	13.7
– Lung Cancer	162	1,127	12,188	6.1	10.8	3.3	1,680	7.2	3.7
– Female Breast	174	387	5,978	3.0	15.4	3.4	552	2.4	2.5
– Colorectal	153-154	330	3,830	1.9	11.6	1.1	611	2.6	1.3
Endocrine, Nutritional, Metabolic Dis.	240-279	242	3,330	1.7	13.8	1.0	601	2.6	1.3
– Diabetes	250	177	2,193	1.1	12.4	0.6	426	1.8	0.9
Diseases of Circulatory System	390-459	3,038	32,090	16.0	10.6	8.7	8,957	38.3	18.2
– Coronary Heart Disease	410-414, 429.2	1,858	18,380	9.2	9.9	5.0	4,929	21.1	10.1
– Cerebrovascular/Stroke	430-434, 436-438	503	5,987	3.0	11.9	1.6	1,908	8.2	3.8
Diseases of Respiratory System	460-519	605	6,164	3.1	10.2	1.8	2,183	9.3	4.3
– Pheumonia/Influenza	480-487	178	2,121	1.1	11.9	0.6	1,053	4.5	2.0
– Chronic Lung Disease	491-492, 496	298	1,995	1.0	6.7	0.5	796	3.4	1.6
Diseases of Digestive System	520-579	446	6,832	3.4	15.3	1.9	899	3.8	2.0
– Chronic Liver Disease/Cirrhosis	571	212	3,590	1.8	16.9	1.0	252	1.1	0.6
Congenital Anomalies	740-759	125	8,210	4.1	65.7	3.2	134	0.6	0.5
Perinatal Conditions	760-779	158	11,692	5.8	74.0	4.6	158	0.7	0.6
External Causes	E800-E999	1,507	54,592	27.3	36.2	18.3	1,872	8.0	5.2
– Motor Vehicle Traffic Accidents	E810-E819	497	20,111	10.0	40.5	7.2	539	2.3	1.7
– Suicide	E950-E959	342	11,545	5.8	33.8	3.5	374	1.6	1.0
All Causes	**001-799, E800-E999**	**11,068**	**200,266**	**100.0**	**18.1**	**62.2**	**23,389**	**100.0**	**51.0**

Note: PYLLSR per 1,000 and ASMR per 10,000 standard population.
Canada Census 1971 used as standard population.
All causes PYLL denotes a total number of years of life lost from an established life expectancy (eg. 75 years).
All causes includes other cause of death categories not shown.
Cause of Death categories may differ from other tables.
Non-residents are excluded.

FIGURE 16

POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

BRITISH COLUMBIA, 1990



Note: PYLLSR and ASMR based on 1971 Canada population.
PYLL: Age under 75 years.

NOTES TO TABLE 30/FIGURE 16

The two leading causes of death are diseases of the circulatory system and malignant neoplasms (cancer). However, the leading contributor to Potential Years of Life Lost is external causes, including motor vehicle accidents, suicides, accidental falls and poisonings.

- Although diseases of the circulatory system contribute more (38.3%) to mortality than malignant neoplasms (26.6%), people die from cancer at a younger age on average.
- External causes of death contribute 27.3% to loss of potential years of life.

TABLE 31

POTENTIAL YEARS OF LIFE LOST BY AGE GROUP AND MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

Cause of Death	ICD9 Code	No. of Deaths	Total PYLL	Percent PYLL	PYLLSR
Under 15 Years Old					
1. Perinatal Conditions	760-779	157	11,690	33.3	4.6
2. Congenital Anomalies	740-759	103	7,555	21.5	3.0
3. Motor Vehicle Traffic Accidents	E810-E819	28	1,838	5.2	0.9
4. Malignant Neoplasms	140-208	25	1,696	4.8	0.8
5. Circulatory Diseases	390-459	8	570	1.6	0.2
6. Pneumonia/Influenza	480-487	5	363	1.0	0.2
Other		160	11,414	32.5	-
All Causes		486	35,126	100.0	14.6
15-24 Years Old					
1. Motor Vehicle Traffic Accidents	E810-E819	137	7,523	39.0	3.4
2. Suicide	E950-E959	47	2,568	13.3	1.1
3. Circulatory Diseases	390-459	10	530	2.7	0.2
4. Accidental Poisoning	E850-E869	9	488	2.5	0.2
5. Malignant Neoplasms	140-208	6	325	1.7	0.1
6. AIDS and HIV-Related	042-044	3	158	0.8	0.1
Other		141	7,696	39.9	-
All Causes		353	19,288	100.0	8.6
25-44 Years Old					
1. Malignant Neoplasms	140-208	242	8,780	15.7	2.1
2. Motor Vehicle Traffic Accidents	E810-E819	211	8,808	15.8	2.3
3. Suicide	E950-E959	174	6,930	12.4	1.7
4. AIDS and HIV-Related	042-044	121	4,638	8.3	1.1
5. Accidental Poisoning	E850-E869	90	3,585	6.4	0.9
6. Coronary Heart Disease	410-414, 429.2	58	2,030	3.6	0.5
Other		538	21,094	37.8	-
All Causes		1,434	55,865	100.0	14.0
45-74 Years Old					
1. Malignant Neoplasms	140-208	3,516	36,860	40.7	10.3
2. Coronary Heart Disease	410-414, 429.2	1,798	16,245	18.1	4.4
3. Cerbrovascular/Stroke	430-434, 436-438	456	4,170	4.6	1.1
4. Chronic Lung Disease	491-492, 496	298	1,995	2.2	0.5
5. Chronic Liver/Cirrhosis	571	187	2,638	2.9	0.8
6. Suicide	E950-E959	120	1,985	2.2	0.6
Other		2,420	26,095	29.0	-
All Causes		8,795	89,988	100.0	25.1

Note: PYLLSR per 1,000 standard population.
Cause of Death categories may differ from other tables.
Canada Census 1971 used as standard population.
Total PYLL denotes a total number of years lost from an established life expectancy (eg. 75 years).
Non-residents are excluded.

NOTES TO TABLE 31/FIGURE 17

Accidents were a major cause of potential years of life lost (PYLL) in 1990 among younger age groups, while malignant neoplasms (cancer) were a major cause among older age groups. There were also major differences between genders.

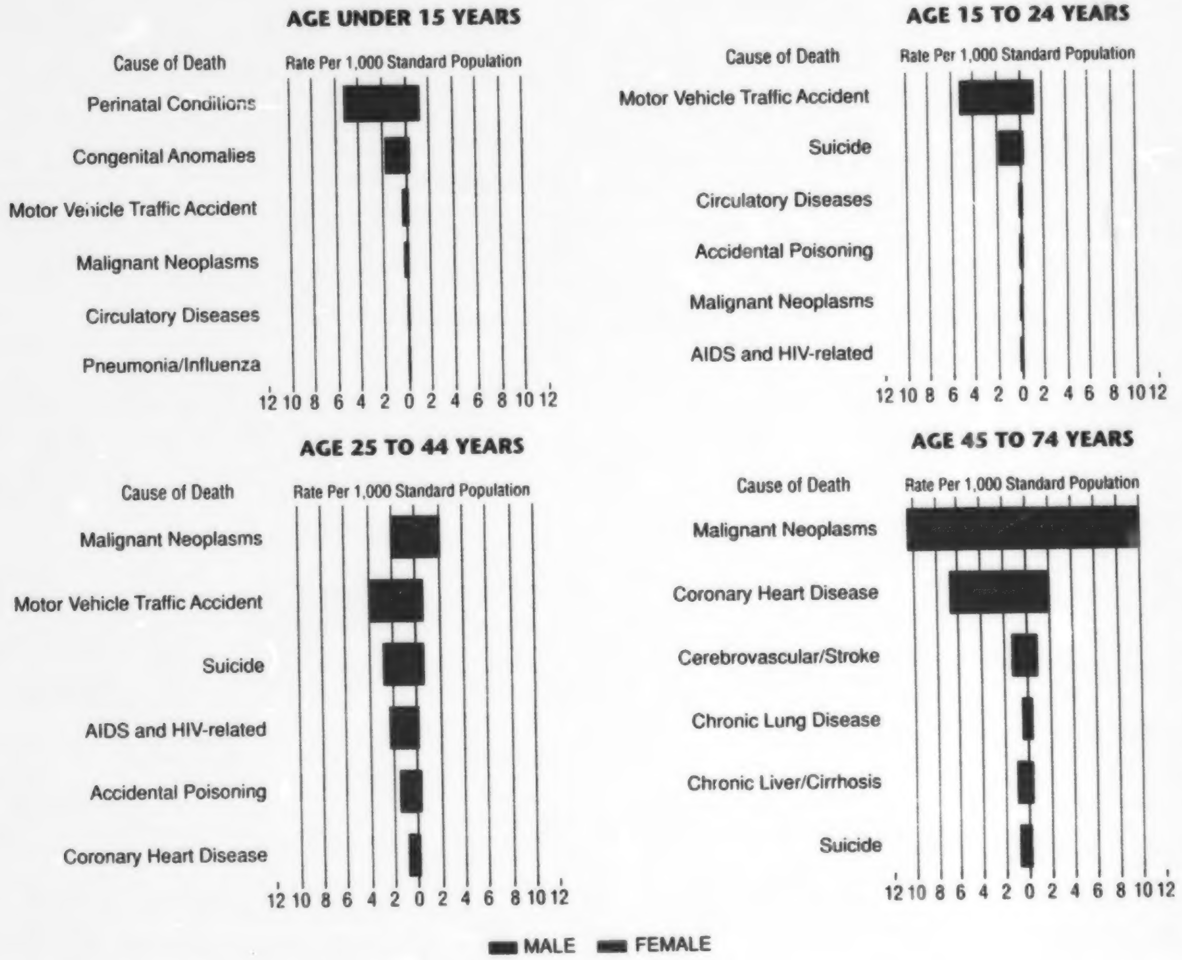
- Deaths due to perinatal conditions (33.3%) and congenital anomalies (21.5%) were responsible for the most PYLL for those under the age of 15 years.

(concluded on page 91)

FIGURE 17

POTENTIAL YEARS OF LIFE LOST BY AGE GROUP AND GENDER MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990



AGE UNDER 15 YEARS

AGE 15 TO 24 YEARS

AGE 25 TO 44 YEARS

AGE 45 TO 74 YEARS

Note: Causes of Death are ordered by number of deaths.

NOTES TO TABLE 31/FIGURE 17 *(continued)*

- Motor vehicle traffic accidents were the major contributor for persons 15-44 years of age.
- For individuals under 45 years, motor vehicle traffic accidents contributed much more to PYLL for males than for females.
- Malignant neoplasms were the major contributor for persons 45-74 years of age.
- Coronary heart disease was higher for males aged 25-74 years than for females of this age group.
- Suicides were much higher for males aged 15-44 years than for females of this age group.
- AIDS and HIV-related causes were major contributors to PYLL for males aged 25-44 years, but were not contributors for females.

TABLE 32

POTENTIAL YEARS OF LIFE LOST BY LOCAL HEALTH AREA ALL CAUSES OF DEATH (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1985-1989 AND 1990

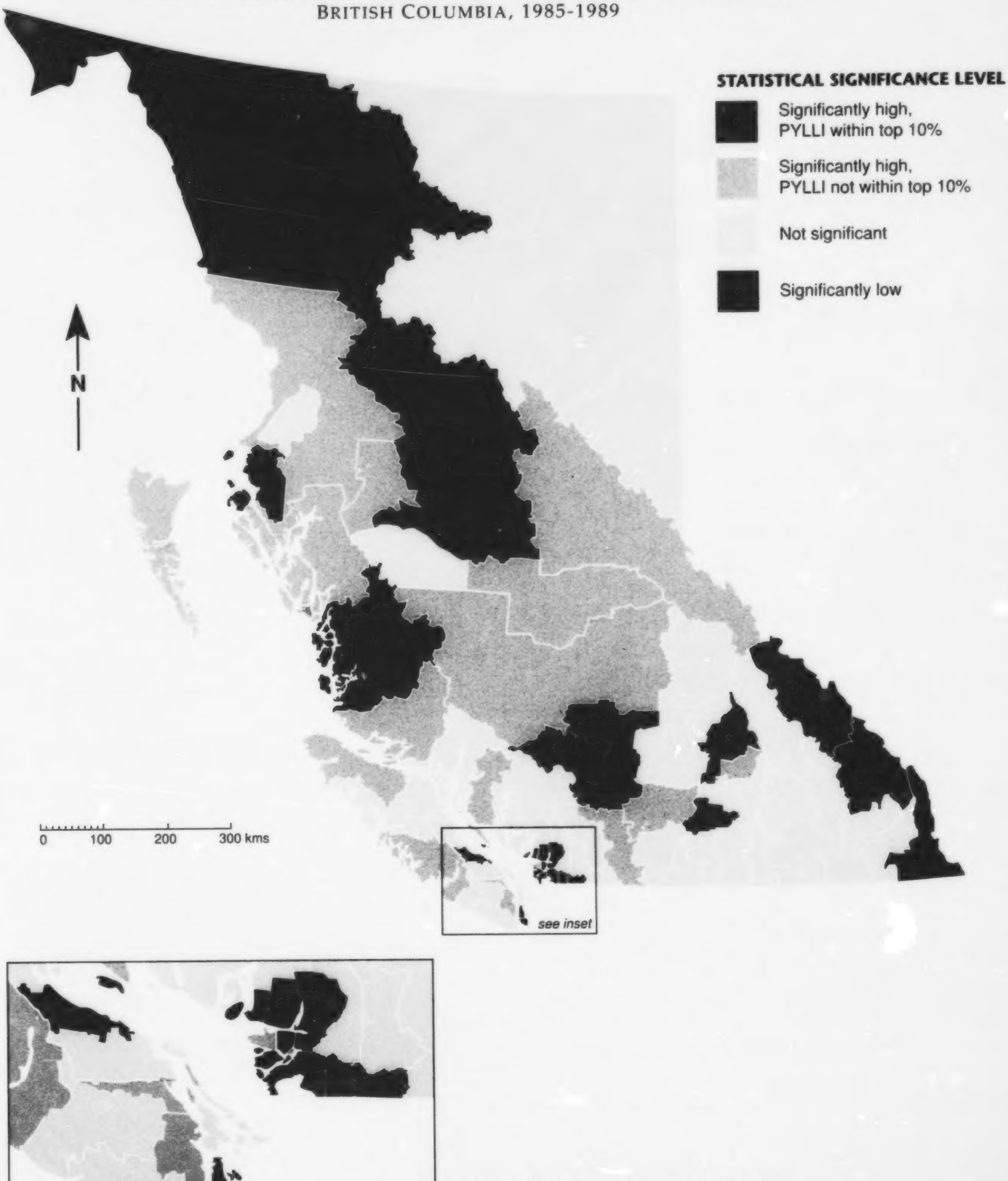
	1985-1989				1990							
										95% Confidence Limit		
Local Health Area	Observed Deaths	Total PYLL	PYLL Index	(p)	Observed Deaths	Total PYLL	Expected PYLL	PYLL Index	(p)	Lower		Upper
01 Fernie	192	3511	0.71	*	30	639	869.3	0.74		0.39	:	1.08
02 Cranbrook	300	5893	0.90		59	966	1227.2	0.79		0.47	:	1.10
03 Kimberley	164	2765	1.04		37	597	463.6	1.29		0.69	:	1.88
04 Windermere	96	1697	0.77	*	20	414	416.1	0.99		0.33	:	1.65
05 Creston	262	3165	0.91		53	738	641.9	1.15		0.72	:	1.58
06 Kootenay Lake	68	1336	1.25		12	285	197.1	1.45		0.47	:	2.42
07 Nelson	383	6039	0.95		63	988	1287.6	0.77		0.51	:	1.02
09 Castlegar	203	3484	0.95		44	854	719.1	1.19		0.69	:	1.68
10 Arrow Lakes	72	1359	0.96		16	315	256.0	1.23		0.38	:	2.08
11 Trail	425	6016	0.91		79	1142	1233.0	0.93		0.62	:	1.23
12 Grand Forks	157	2229	0.94		33	483	454.0	1.06		0.58	:	1.55
13 Kettle Valley	71	1279	1.24		18	240	204.6	1.17		0.46	:	1.88
14 Southern Okanagan	385	5124	1.06		50	465	880.3	0.53	*	0.32	:	0.74
15 Penticton	654	9170	0.92		145	1865	1973.2	0.94		0.72	:	1.17
16 Keremeos	98	1432	1.12		19	278	237.9	1.17		0.49	:	1.85
17 Princeton	110	2036	1.31		26	487	306.2	1.59		0.73	:	2.45
18 Golden	63	1624	0.72	*	18	459	450.5	1.02		0.41	:	1.63
19 Revelstoke	143	2976	1.07		29	575	508.4	1.13		0.56	:	1.70
20 Salmon Arm	479	7049	0.83	*	111	1592	1610.6	0.99		0.72	:	1.25
21 Armstrong-Spallumcheen	114	2293	1.00		30	462	441.2	1.05		0.52	:	1.58
22 Vernon	814	14934	1.05		173	2815	2821.1	1.00		0.78	:	1.21
23 Central Okanagan	1693	27444	0.89	*	352	5801	6478.5	0.90		0.76	:	1.03
24 Kamloops	1289	25684	1.05		249	5009	4996.1	1.00		0.84	:	1.17
26 North Thompson	84	1995	1.38		17	444	275.9	1.61		0.58	:	2.63
27 Cariboo-Chilcotin	667	16753	1.41	*	134	3244	2306.0	1.41	*	1.11	:	1.71
28 Quesnel	422	10100	1.34	*	79	1547	1446.3	1.07		0.72	:	1.41
29 Lillooet	112	3047	2.04	*	24	555	282.1	1.97		1.00	:	2.94
30 South Cariboo	173	3884	1.66	*	39	895	430.0	2.08	*	1.22	:	2.94
31 Merritt	204	4299	1.36	*	44	750	640.4	1.17		0.70	:	1.64
32 Hope	169	3321	1.33	*	38	690	482.6	1.43		0.86	:	1.99
33 Chilliwack	950	15206	0.96		210	3263	3306.7	0.99		0.80	:	1.18
34 Abbotsford	1074	19943	0.87	*	239	3183	5073.6	0.63	*	0.51	:	0.75
35 Langley	1152	21286	0.91	*	286	4625	5213.7	0.89		0.73	:	1.04
36 Surrey	3493	61110	0.89	*	763	13371	15462.2	0.86	*	0.78	:	0.95
37 Delta	1011	18265	0.72	*	232	3956	5407.3	0.73	*	0.60	:	0.87
38 Richmond	1599	27524	0.75	*	343	5896	7881.9	0.75	*	0.64	:	0.86
39 Vancouver	9565	164861	1.13	*	1860	34381	29777.3	1.15	*	1.08	:	1.23
40 New Westminster	1009	16930	1.26	*	200	3524	2820.1	1.25	*	1.02	:	1.48
41 Burnaby	2705	40842	0.82	*	518	8231	10197.0	0.81	*	0.71	:	0.91
42 Maple Ridge	828	15085	0.98		175	3710	3653.0	1.02		0.82	:	1.21
43 Coquitlam	1685	32607	0.84	*	358	6636	8756.4	0.76	*	0.65	:	0.87
44 North Vancouver	1700	29354	0.83	*	321	5863	7618.9	0.77	*	0.65	:	0.88
45 West Vancouver-Bowen Island	694	9275	0.65	*	152	2151	2906.4	0.74	*	0.56	:	0.92
46 Sechelt	409	6083	1.03		88	1219	1188.5	1.03		0.70	:	1.35
47 Powell River	373	7008	1.20	*	76	1518	1192.4	1.27		0.87	:	1.67
48 Howe Sound	229	5924	1.13		47	1074	1158.1	0.93		0.57	:	1.28
49 Central Coast	89	2815	2.69	*	13	479	209.6	2.28		0.76	:	3.81
50 Queen Charlotte	90	2445	1.44	*	20	612	330.7	1.85		0.81	:	2.89
52 Prince Rupert	329	8594	1.51	*	64	1870	1156.1	1.62	*	1.09	:	2.14
54 Smithers	209	6319	1.41	*	45	1121	938.5	1.19		0.74	:	1.64
55 Burns Lake	142	3907	1.54	*	23	602	484.7	1.24		0.61	:	1.87
56 Nechako	247	7704	1.60	*	56	1483	935.8	1.58	*	1.04	:	2.13
57 Prince George	1284	31724	1.15	*	285	6831	5454.5	1.25	*	1.06	:	1.45
59 Peace River South	396	9177	1.10		71	1492	1588.6	0.94		0.65	:	1.23
60 Peace River North	342	8798	1.13		89	2617	1479.4	1.77	*	1.30	:	2.24
61 Greater Victoria	3621	52375	0.91	*	702	11411	11335.6	1.01		0.90	:	1.11
62 Sooke	647	12293	0.92		134	2536	2947.5	0.86		0.67	:	1.05
63 Saanich	758	10554	0.72	*	179	2761	3168.4	0.87		0.69	:	1.06
64 Gulf Islands	209	2923	0.85		51	972	677.9	1.43		0.85	:	2.01
65 Cowichan	769	14145	1.20	*	149	2706	2459.1	1.10		0.85	:	1.35
66 Lake Cowichan	104	1657	0.95		24	535	315.2	1.70		0.76	:	2.63
67 Ladysmith	330	5583	1.33	*	63	1004	845.1	1.19		0.73	:	1.65
68 Nanaimo	1302	21566	1.05		271	4056	4244.9	0.96		0.78	:	1.13
69 Qualicum	551	6978	0.85	*	133	1895	1649.3	1.15		0.87	:	1.43
70 Alberni	605	12736	1.29	*	109	2545	1969.4	1.29		0.96	:	1.63
71 Courtenay	727	13022	1.01		154	2786	2734.5	1.02		0.79	:	1.25
72 Campbell River	496	9954	1.00		115	2398	2120.9	1.13		0.86	:	1.40
75 Mission	477	9661	1.13		95	1800	1854.0	0.97		0.69	:	1.25
76 Agassiz-Harrison	108	1921	1.07		32	535	371.1	1.44		0.77	:	2.11
77 Summerland	202	2485	0.87		41	403	547.7	0.73		0.37	:	1.10
78 Enderby	124	2329	1.35	*	35	573	314.0	1.82	*	1.00	:	2.65
80 Kitimat	164	5062	1.29	*	35	982	767.1	1.28		0.74	:	1.81
81 Fort Nelson	61	1706	1.06		16	590	280.7	2.10		0.94	:	3.26
84 Vancouver Island West	42	1311	1.06		13	485	227.8	2.13		0.84	:	3.41
85 Vancouver Island North	216	6519	1.40	*	32	1005	880.6	1.14		0.65	:	1.64
87 Stikine	32	1068	1.84	*	8	275	91.0	3.02		0.71	:	5.34
88 Terrace	361	10721	1.37	*	91	2417	1590.2	1.52	*	1.11	:	1.93
92 Nishga	25	699	1.46		2	77	93.8	0.82		0.74	:	2.38
94 Telegraph Creek	15	648	2.86	*	1	13	50.7	0.25	+	0.24	:	0.73
Provincial Total	**53,622**	**962,640**	-		**11,060**	**200,062**	-	-		-		-

Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p < 0.05$ two tailed).
+ Denotes significance based on less than five deaths. PYLL and PYLL-Index: see Glossary for more details. LHA 93, Eutsuk, not shown due to no residential population. Cases with unknown age, gender or non-residents are excluded.

FIGURE 18

POTENTIAL YEARS OF LIFE LOST BY LOCAL HEALTH AREA ALL CAUSES OF DEATH (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1985-1989


STATISTICAL SIGNIFICANCE LEVEL
Significantly high, PYLLI within top 10%
Significantly high, PYLLI not within top 10%
Not significant
Significantly low
N
0 100 200 300 kms
see inset
0 50 kms

Note: PYLLI – Potential years of lost life index.
Refer to Figure 1A, Page 5, for clarifying geographical location of Local Health Areas.

NOTES TO TABLE 32/FIGURE 18

A number of Local Health Areas (LHAs) had total PYLLI from all causes that were statistically significantly higher or lower than the expected values.

- 9 LHAs experienced significantly higher than expected PYLLI from all causes in both the 5 year period (1985-1989) and in 1990, respectively. The top 6 were:
  - 30 South Cariboo PYLLI = 1.66, 2.08
  - 56 Nechako PYLLI = 1.60, 1.58
  - 52 Prince Rupert PYLLI = 1.51, 1.62
  - 27 Cariboo-Chilcotin PYLLI = 1.41, 1.41
  - 88 Terrace PYLLI = 1.37, 1.52
  - 78 Enderby PYLLI = 1.35, 1.82

- 8 LHAs experienced significantly lower than expected PYLLI from all causes in both the 5 year period (1985-1989) and in 1990, respectively. The lowest 6 were:
  - 45 West Vancouver-Bowen Island PYLLI = 0.65, 0.74
  - 37 Delta PYLLI = 0.72, 0.73
  - 38 Richmond PYLLI = 0.75, 0.75
  - 41 Burnaby PYLLI = 0.82, 0.81
  - 44 North Vancouver PYLLI = 0.83, 0.77
  - 43 Coquitlam PYLLI = 0.84, 0.76

- In 1990, LHA 60-Peace River had a statistically significantly high PYLLI and LHA 14-South Okanagan had the lowest statistically significant PYLLI; however, neither was significant over the previous 5 year period.

TABLE 33

AGE STANDARDIZED MORTALITY RATES BASED ON DIFFERENT STANDARD POPULATIONS

BRITISH COLUMBIA, 1990

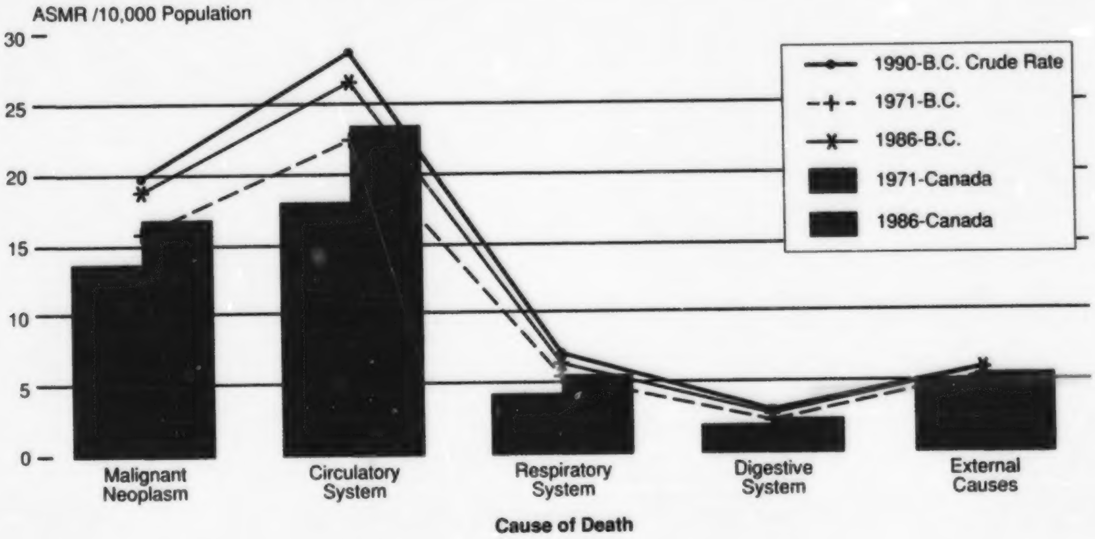
Cause of Death	1990		ASMR by Different Standard Populations			
	Number of Deaths	Crude Rate	1971 B.C.	1986 B.C.	1971 Canada	1986 Canada
Malignant Neoplasm	6214	19.8	15.7	18.7	13.7	17.0
Circulatory System	8957	28.6	22.4	26.6	18.2	23.7
Respiratory System	2183	7.0	5.5	6.5	4.3	5.7
Digestive System	899	2.9	2.3	2.7	2.0	2.5
External Causes	1872	6.0	5.4	5.9	5.2	5.8

Note: ASMR and Crude Rate per 10,000 population.

FIGURE 19

AGE STANDARDIZED MORTALITY RATES BASED ON DIFFERENT STANDARD POPULATIONS

BRITISH COLUMBIA, 1990



NOTES TO TABLE 33/FIGURE 19

Age standardized mortality rates are an adjusted measure, which account for population compositional differences, employing various weighting factors derived from a "standard population". It is important to bear in mind that all measures derived using standard population weighting factors are not real values. It is the relative values of the adjusted measures that are important for comparative analysis of different time periods or areas, rather than the absolute values of the measures.

Table 33 and Figure 19 illustrate the effects of age standardization employing various standard populations.

- In all cases in this example the age standardized rate is less than the crude rate;
- Regardless of whether crude rates or the various age standardized rates are used, the relative values for deaths by major categories remain approximately the same;
- 1990 ASMRs based on the British Columbia rather than Canadian, and on 1986 rather than 1971 standard populations (census data), are closer to the 1990 crude rates, as these standard populations more closely resemble the 1990 British Columbia population structure.

TABLE 34

DEATHS FROM ACCIDENTS AND VIOLENCE

BRITISH COLUMBIA, 1985-1990

Cause of Death (ICD9 Code)	1985		1986		1987		1988		1989		1990	
	Number	ASMR	Number	ASMR	Number	ASMR	Number	ASMR	Number	ASMR	Number	ASMR
Motor Vehicle Accidents (E810-E825)	457	1.5	551	1.9	571	1.9	540	1.8	496	1.6	567	1.8
Other Transport Accidents (E800-E807, E826-E848)	65	0.2	87	0.3	86	0.3	71	0.2	60	0.2	60	0.2
Accidental Poisoning (E850-E869)	115	0.4	120	0.4	105	0.3	106	0.3	68	0.2	155	0.4
Accidental Fall (E880-E888)	288	0.7	264	0.7	291	0.7	257	0.6	250	0.5	303	0.6
Accident Caused by Fire/Flames (E890-E899)	55	0.2	53	0.2	37	0.1	52	0.2	53	0.2	49	0.1
Drowning/Submersion (E910)	54	0.2	61	0.2	68	0.2	51	0.2	61	0.2	52	0.2
Accident Caused by Machinery (E919)	18	0.1	20	0.1	14	0.0	23	0.1	21	0.1	20	0.1
Accident Caused by Firearm (E922)	4	0.0	2	0.0	8	0.0	3	0.0	7	0.0	3	0.0
All Other Accidents (E870-E879, E900-E909, E911-E918, E920-E921, E923-E949, E970-E978)	163	0.5	143	0.5	137	0.4	145	0.4	173	0.5	186	0.5
Suicide (E950-E959)	468	1.4	453	1.4	415	1.2	406	1.2	412	1.2	374	1.0
Homicide (E960-E969)	106	0.4	84	0.3	78	0.3	74	0.2	64	0.2	86	0.3
Undetermined if Accident (E980-E989)	32	0.1	21	0.1	15	0.0	13	0.0	9	0.0	17	0.1
Injury from Operations of War (E990-E999)	-	-	-	-	1	0.0	-	-	1	0.0	-	-
TOTAL (E800-E999)	**1,825**	**5.6**	**1,859**	**5.7**	**1,826**	**5.5**	**1,741**	**5.2**	**1,675**	**4.9**	**1,872**	**5.2**

Note: ASMR: Age Standardized Mortality Rate per 10,000 population using 1971 Canada Census as standard.
Cases with unknown age are excluded.
Non-residents are excluded.

NOTES TO TABLES 34/35

From 1985 to 1990, the age standardized mortality rates for deaths due to accidents and violence have remained fairly stable.

- The order of the leading causes of death from accidents and violence in 1990 remained consistent with the pattern observed from the year 1986:
  - motor vehicle accidents were the leading cause;
  - suicide was the second leading cause; and,
  - accidental falls were the third leading cause.
- In 1985 suicide, rather than motor vehicle accidents, was the leading cause.
- The observed pattern for the province as a whole varies substantially among individual Local Health Areas. For example, suicides and accidental poisonings are higher than motor vehicle deaths for Vancouver (LHA 39); accidental falls and suicide are also higher than motor vehicle accidental deaths in Greater Victoria (LHA 61).

TABLE 35

DEATHS FROM ACCIDENTS AND VIOLENCE BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1990

Local Health Area	Motor Vehicle Accidents	Other Transport Accidents	Accidental		Fire/ Flames	Accidental Drowning/ Submersion	Suicide	Homicide	Other	Total	
			Poisoning	Fall						Deaths	Rate
01 Fernie	3	1	-	-	-	-	1	-	2	7	4.8
02 Cranbrook	1	-	1	2	-	-	-	-	2	6	3.0
03 Kimberley	1	-	-	2	-	-	1	-	2	6	8.0
04 Windermere	-	-	-	-	1	1	-	-	-	2	3.1
05 Creston	-	-	-	-	2	-	2	1	1	6	6.0
06 Kootenay Lake	1	-	-	-	-	1	1	-	1	4	12.7
07 Nelson	5	-	-	-	-	-	3	-	3	11	5.4
09 Castlegar	2	-	-	-	-	-	1	-	2	5	4.4
10 Arrow Lakes	-	-	-	1	-	-	3	1	1	6	14.6
11 Trail	1	-	-	2	-	-	4	-	2	9	4.6
12 Grand Forks	3	-	1	-	-	-	-	1	-	5	7.0
13 Kettle Valley	1	-	-	-	-	-	2	-	-	3	9.5
14 Southern Okanagan	3	-	-	2	-	1	1	-	1	8	5.8
15 Penticton	8	2	2	3	-	-	6	1	1	23	7.2
16 Keremeos	1	-	-	1	-	-	-	-	-	2	5.5
17 Princeton	-	-	-	-	-	-	4	-	-	4	8.5
18 Golden	1	-	1	-	-	-	1	-	1	4	5.7
19 Revelstoke	2	-	-	1	-	-	3	-	1	7	8.7
20 Salmon Arm	8	-	1	4	-	-	2	-	4	19	7.8
21 Armstrong-Spallumcheen	1	-	-	2	-	-	-	1	-	4	5.6
22 Vernon	6	-	2	4	-	-	5	1	6	24	5.4
23 Central Okanagan	31	-	1	16	2	-	11	2	8	71	7.0
24 Kamloops	18	-	4	7	-	2	14	2	8	55	7.1
26 North Thompson	2	-	-	-	-	-	-	-	3	5	11.6
27 Cariboo-Chilcotin	20	-	-	2	-	3	5	2	3	35	9.8
28 Quesnel	4	1	2	3	-	-	3	2	1	16	6.9
29 Lillooet	5	-	-	-	1	1	2	1	3	13	29.9
30 South Cariboo	4	-	-	-	-	-	2	-	-	6	9.1
31 Merritt	6	-	1	1	1	1	1	-	-	11	11.3
32 Hope	7	-	1	-	-	-	2	1	1	12	16.3
33 Chilliwack	9	3	1	6	-	-	5	-	8	32	6.2
34 Abbotsford	12	-	-	6	1	1	1	2	3	26	3.2
35 Langley	19	1	1	13	1	-	8	1	1	45	5.4
36 Surrey	46	5	4	9	4	2	19	6	8	103	4.3
37 Delta	2	3	3	5	1	1	4	3	2	24	2.8
38 Richmond	11	1	4	12	3	1	14	2	13	61	5.0
39 Vancouver	59	5	66	59	6	10	67	19	30	321	6.9
40 New Westminster	7	-	5	4	-	-	10	3	3	32	7.2
41 Burnaby	23	-	11	17	2	5	20	3	2	83	5.4
42 Maple Ridge	12	1	2	2	-	1	12	1	4	35	6.1
43 Coquitlam	11	-	5	7	3	1	14	1	9	51	3.8
44 North Vancouver	9	1	4	11	-	1	6	2	4	38	3.3
45 West Vancouver-Bowen Island	2	-	3	13	-	-	7	2	1	28	6.3
46 Sechelt	3	1	-	2	-	1	-	-	2	9	4.9
47 Powell River	3	1	1	3	2	-	6	1	3	20	10.9
48 Howe Sound	3	1	-	1	-	-	3	-	2	10	5.7
49 Central Coast	1	-	-	1	-	1	-	1	-	4	12.6
50 Queen Charlotte	5	-	-	-	1	-	-	-	-	6	11.6
52 Prince Rupert	2	1	-	-	-	-	1	4	-	8	4.5
54 Smithers	7	1	-	-	-	-	1	-	-	9	6.2
55 Burns Lake	5	1	-	-	-	-	2	-	2	10	13.0
56 Nechako	11	2	1	2	2	-	1	1	3	23	15.3
57 Prince George	26	1	2	5	3	2	11	3	7	60	6.9
59 Peace River South	7	1	-	-	2	-	1	-	2	13	5.1
60 Peace River North	8	5	-	1	1	4	3	-	3	25	10.6
61 Greater Victoria	19	1	6	30	4	3	22	3	11	99	5.3
62 Sooke	5	-	3	2	1	-	2	-	3	16	3.5
63 Saanich	5	1	2	7	-	1	1	1	5	23	4.8
64 Gulf Islands	1	-	-	-	2	-	6	-	-	9	8.7
65 Cowichan	9	-	-	3	-	-	2	-	1	15	3.9
66 Lake Cowichan	1	-	1	2	-	-	2	1	-	7	14.6
67 Ladysmith	4	2	-	2	-	-	-	1	2	11	8.4
68 Nanaimo	8	-	4	5	-	2	6	1	7	33	5.0
69 Qualicum	7	-	2	3	-	-	6	1	2	21	8.5
70 Alberni	4	3	-	7	1	1	3	1	2	22	7.3
71 Courtenay	7	2	2	5	-	1	3	-	6	26	6.2
72 Campbell River	5	2	-	2	-	1	7	1	4	22	6.7
75 Mission	8	-	-	2	1	-	2	-	2	15	5.1
76 Agassiz-Harrison	3	1	-	-	-	-	1	1	-	6	10.7
77 Summerland	3	-	-	-	-	-	1	-	1	5	5.7
78 Enderby	4	1	2	1	-	-	3	-	1	12	24.5
80 Kitimat	3	1	-	-	1	-	3	1	2	11	9.1
81 Fort Nelson	3	1	-	-	-	-	2	-	3	9	19.6
84 Vancouver Island West	1	2	1	-	-	-	-	1	-	5	14.0
85 Vancouver Island North	1	1	-	-	-	-	3	-	1	6	4.2
87 Stikine	3	3	1	-	-	-	-	-	1	8	51.1
88 Terrace	14	-	1	-	-	2	2	2	2	23	9.2
92 Nishga	-	-	-	-	-	-	-	-	-	-	-
94 Telegraph Creek	-	-	-	-	-	-	-	-	-	-	-
Unknown	1	-	-	-	-	-	1	-	1	3	-
Provincial Total	**567**	**60**	**155**	**303**	**49**	**52**	**374**	**86**	**226**	**1,872**	**6.0**

Note: Based on usual residence. LHA 93, Eutsuk, not shown due to no residential population. Non-residents are excluded.
Rate per 1,000 population in the specified area.

TABLE 36

MOTOR VEHICLE ACCIDENTAL DEATHS BY MONTH AND GENDER

BRITISH COLUMBIA, 1990

Month	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
January	31	7.3	7	4.8	38	6.7
February	37	8.8	10	6.9	47	8.3
March	24	5.7	14	9.7	38	6.7
April	34	8.1	7	4.8	41	7.2
May	43	10.2	10	6.9	53	9.3
June	36	8.5	11	7.6	47	8.3
July	38	9.0	14	9.7	52	9.2
August	45	10.7	20	13.8	65	11.5
September	37	8.8	11	7.6	48	8.5
October	36	8.5	9	6.2	45	7.9
November	40	9.5	18	12.4	58	10.2
December	21	5.0	14	9.7	35	6.2
Total	**422**	**100.0**	**145**	**100.0**	**567**	**100.0**

Note: M.V.A. Deaths - ICD9 = E810-E825.
Non-residents are excluded.

NOTES TO TABLE 36

In 1990, there were 567 motor vehicle accidental deaths.

- Overall, males exceeded females in total motor vehicle accidental deaths by a factor of 2.9 times.
- There was considerable variation in the numbers of deaths on a month to month basis, with August and November having the largest number of deaths, and December having the least.

DEFINITION OF TERMS

ALCOHOL-RELATED DEATHS

Any death in which the underlying cause or the contributing causes of death included at least one of the following ICD9 codes:

291	Alcohol psychoses
303	Alcohol dependence syndrome
305.0	Non-dependent abuse of alcohol
357.5	Alcoholic polyneuropathy
425.5	Alcoholic cardiomyopathy
535.3	Alcoholic gastritis
571	Liver disease and cirrhosis (excluding non-alcohol-specific chronic hepatitis (571.4) and billiary cirrhosis (571.6))
577.1	Chronic pancreatitis
648.4	Alcohol and pregnancy
760.7	Fetal Alcohol Syndrome
E860	Accidental alcohol poisoning

To date most studies on alcohol-related deaths have been based on the application of a "fraction attributable to a risk factor." In recent years physicians and coroners have been more diligent in reporting the involvement of alcohol on a registration of death. The following tables, figures, and map are based on a study of death registrations for the period 1985-1989 and 1990, using the above ICD9 codes, which cover alcohol-related deaths.

TABLE 37

ALCOHOL-RELATED DEATHS BY AGE AND GENDER

BRITISH COLUMBIA, 1990

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	1	0.2	1	0.5	2	0.3
15 - 19	1	0.2	3	1.4	4	0.5
20 - 24	7	1.2	2	0.9	9	1.1
25 - 44	79	13.5	29	13.6	108	13.5
45 - 64	244	41.6	87	40.8	331	41.4
65 - 84	236	40.2	87	40.8	323	40.4
85+	19	3.2	4	1.9	23	2.9
Total	**587**	**100.0**	**213**	**100.0**	**800**	**100.0**

Note: Alcohol-related deaths - ICD9 = 291, 303, 305.0, 357.5, 425.5, 535.3, 571.0-571.3, 571.5, 571.8-571.9, 577.1, 648.4, 760.7, or E860.
Non-residents are excluded.
Percentage may not add to 100 due to rounding.

NOTES TO TABLE 37

In 1990, there were 800 alcohol-related deaths.

- Approximately 73% of all alcohol-related deaths were males.
- Deaths related to alcohol before age 25 are infrequent.
- Deaths for those in age groups 45-84 accounted for more than 80% of all alcohol-related deaths.

TABLE 38

ALCOHOL-RELATED DEATHS BY CAUSE

BRITISH COLUMBIA, 1985-1989 AND 1990

	Year of Death			
	1985-1989		1990	
Cause of Death	Number	Percent	Number	Percent
Directly Related to Alcohol	2,009	53.1	398	49.8
Indirectly Related to Alcohol				
Infections/Parasitic	36	1.0	12	1.5
Malignant Neoplasms	176	4.6	58	7.3
Endocrin/Nutrition/Metabol	-	-	13	1.6
Brain Damage	-	-	12	1.5
Heart and Circulatory	519	13.7	104	13.0
Respiratory Disease	312	8.2	50	6.3
Digestive Tract Disease	114	3.0	34	4.3
Renal Disease	24	0.6	7	0.9
Accidents	456	12.0	86	10.8
Suicide	112	3.0	15	1.9
Homicide	20	0.5	-	-
Other	8	0.2	11	1.4
Subtotal	1,777	46.9	402	50.3
Total	**3,786**	**100.0**	**800**	**100.0**

Note: Alcohol-related deaths - ICD9 = 291, 303, 305.0, 357.5, 425.5, 535.3, 571.0-571.3, 571.5, 571.8-571.9, 577.1, 648.4,760.7, or E860

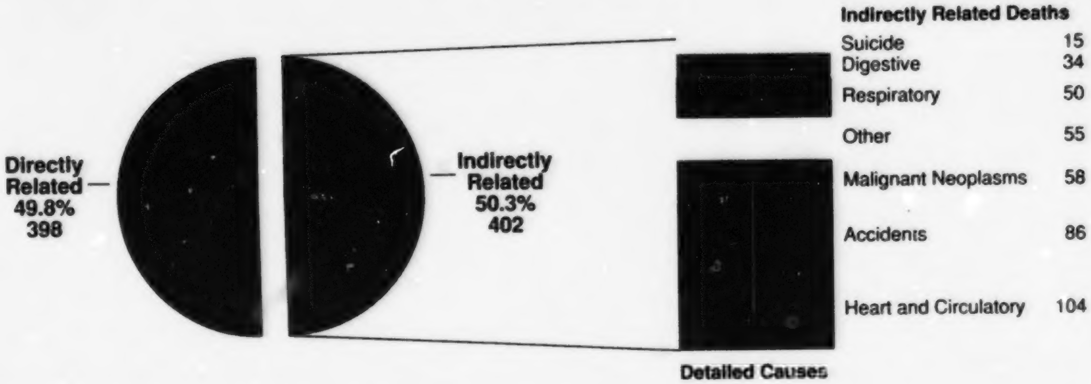
Non-residents are excluded.

Percentages may not add to 100 due to rounding.

FIGURE 20

ALCOHOL-RELATED DEATHS BY CAUSE

BRITISH COLUMBIA, 1990



Note: Percentages may not add to 100 due to rounding.

NOTES TO TABLE 38/FIGURE 20

- Slightly more than 50% of alcohol-related deaths in 1990 were indirectly related to alcohol with heart and circulatory disease (13.0%), accidents (10.8%) and malignant neoplasms (6.3%) as leading causes of death.

TABLE 39

STANDARDIZED MORTALITY RATIO FOR ALCOHOL-RELATED DEATHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1985-1989 AND 1990

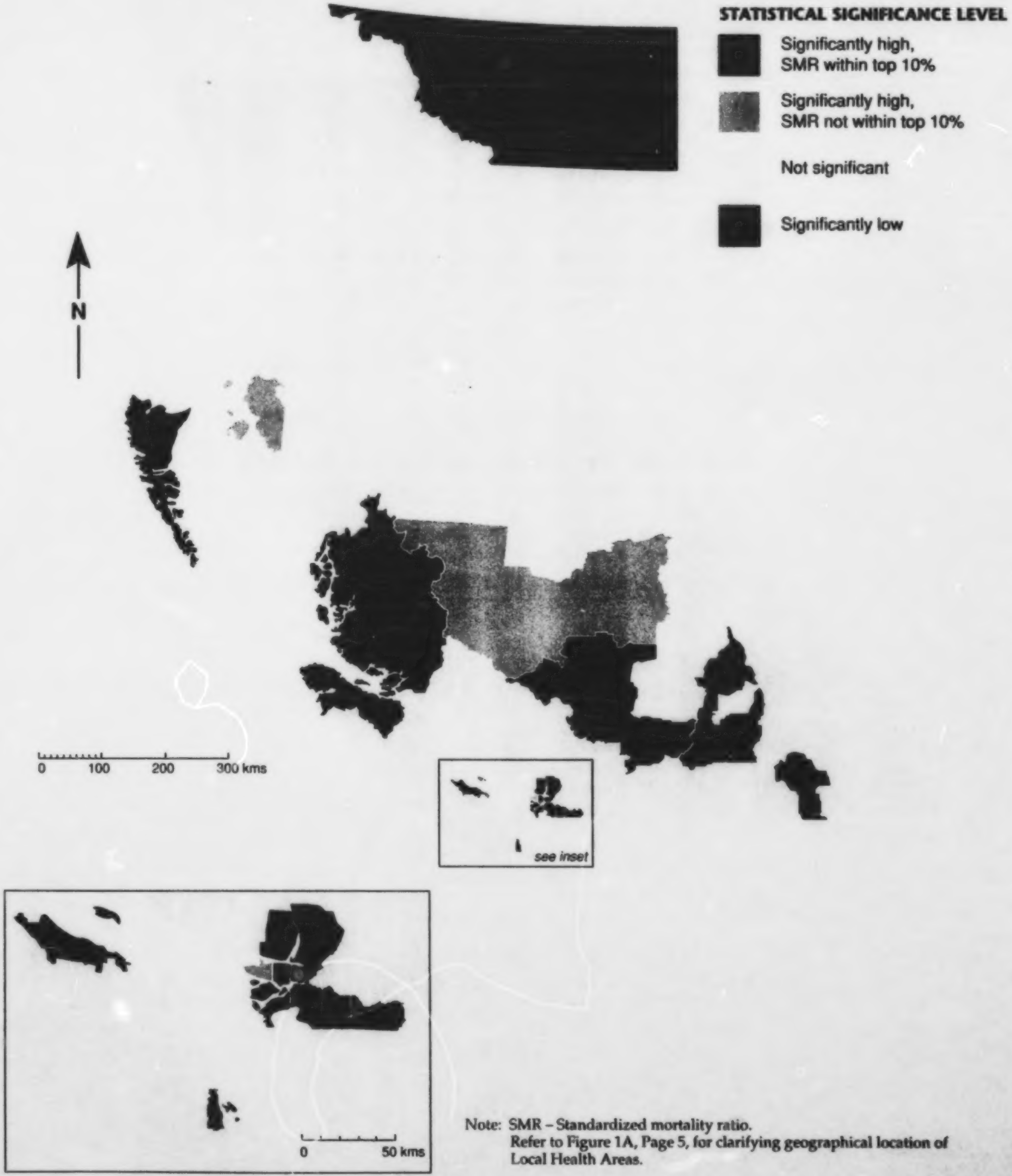
	1985-1989		1990			95% Confidence Interval	
Local Health Area	Observed Deaths	SMR (p)	Observed Deaths	Expected Deaths	SMR (p)	Lower	Upper
01 Fernie	22	1.48	1	2.8	0.36	0.02	2.25
02 Cranbrook	26	1.16	5	4.4	1.13	0.40	2.76
03 Kimberley	8	0.68	3	2.3	1.31	0.32	4.08
04 Windermere	9	1.14	1	1.5	0.65	0.03	4.09
05 Creston	15	0.83	5	3.6	1.39	0.49	3.39
06 Kootenay Lake	4	0.75	2	1.1	1.83	0.28	7.17
07 Nelson	17	0.61 *	7	5.8	1.21	0.52	2.58
09 Castlegar	10	0.67	0	3.0	-	-	-
10 Arrow Lakes	4	0.63	3	1.3	2.41	0.58	7.49
11 Trail	24	0.83	4	5.7	0.70	0.21	1.88
12 Grand Forks	9	0.77	4	2.4	1.69	0.52	4.56
13 Kettle Valley	4	0.87	0	0.9	-	-	-
14 Southern Okanagan	32	1.20	3	5.4	0.56	0.13	1.73
15 Penticton	42	0.81	7	10.8	0.65	0.28	1.38
16 Keremeos	9	1.32	3	1.4	2.18	0.53	6.78
17 Princeton	5	0.79	1	1.3	0.79	0.03	4.96
18 Golden	1	0.15 +	0	1.4	-	-	-
19 Revelstoke	9	1.02	6	1.7	3.47 *	1.37	7.84
20 Salmon Arm	22	0.55 *	9	7.8	1.15	0.55	2.24
21 Armstrong-Spallumcheen	7	0.71	2	1.9	1.03	0.16	4.04
22 Vernon	43	0.70 *	11	12.5	0.88	0.46	1.62
23 Central Okanagan	94	0.64 *	15	30.7	0.49 *	0.28	0.82
24 Kamloops	100	1.16	24	17.7	1.36	0.88	2.05
26 North Thompson	8	1.74	0	0.9	-	-	-
27 Cariboo-Chilcotin	62	1.67 *	7	7.4	0.95	0.41	2.03
28 Quesnel	23	0.98	5	4.6	1.08	0.38	2.63
29 Lillooet	18	3.52 *	0	1.0	-	-	-
30 South Cariboo	20	2.34 *	5	1.6	3.09 *	1.09	7.53
31 Merritt	29	2.72 *	3	2.2	1.37	0.33	4.27
32 Hope	13	1.34	4	1.9	2.09	0.64	5.64
33 Chilliwack	58	0.86	10	14.1	0.71	0.36	1.34
34 Abbotsford	54	0.59 *	9	19.4	0.46 *	0.22	0.91
35 Langley	55	0.65 *	16	18.0	0.89	0.52	1.47
36 Surrey	226	0.87 *	46	55.8	0.82	0.61	1.11
37 Delta	51	0.59 *	11	18.5	0.59	0.31	1.09
38 Richmond	87	0.65 *	28	28.2	0.99	0.67	1.45
39 Vancouver	957	1.52 *	198	128.7	1.54 *	1.33	1.77
40 New Westminster	82	1.34 *	8	13.1	0.61	0.28	1.24
41 Burnaby	167	0.81 *	37	42.3	0.88	0.62	1.22
42 Maple Ridge	44	0.82	10	12.1	0.83	0.41	1.56
43 Coquitlam	96	0.76 *	23	27.7	0.83	0.54	1.26
44 North Vancouver	102	0.76 *	33	28.3	1.17	0.81	1.66
45 West Vancouver-Bowen Is.	58	0.81	7	15.2	0.46 *	0.20	0.98
46 Sechelt	34	1.20	3	5.7	0.52	0.13	1.63
47 Powell River	33	1.35	5	5.0	1.01	0.36	2.45
48 Howe Sound	19	1.22	3	3.3	0.90	0.22	2.79
49 Central Coast	11	3.43 *	2	0.6	3.15	0.49	12.33
50 Queen Charlotte	10	2.24 *	1	0.9	1.11	0.05	6.95
52 Prince Rupert	32	1.96 *	4	3.4	1.19	0.36	3.21
54 Smithers	10	0.81	4	2.6	1.54	0.47	4.15
55 Burns Lake	8	1.12	1	1.5	0.68	0.03	4.26
56 Nechako	15	1.08	4	2.8	1.43	0.44	3.86
57 Prince George	93	1.23	19	15.5	1.22	0.75	1.94
59 Peace River South	27	1.06	8	4.8	1.66	0.75	3.36
60 Peace River North	24	1.14	5	4.3	1.16	0.41	2.83
61 Greater Victoria	260	0.91	57	60.9	0.94	0.71	1.22
62 Sooke	35	0.73	6	10.5	0.57	0.23	1.30
63 Saanich	44	0.63 *	15	14.8	1.01	0.58	1.70
64 Gulf Islands	17	0.86	3	4.1	0.73	0.18	2.29
65 Cowichan	46	0.94	15	10.1	1.49	0.86	2.51
66 Lake Cowichan	3	0.47	1	1.3	0.80	0.03	4.99
67 Ladysmith	18	0.91	4	4.0	1.00	0.30	2.69
68 Nanaimo	100	1.17	11	17.7	0.62	0.32	1.14
69 Qualicum	25	0.58 *	8	8.9	0.90	0.41	1.82
70 Alberni	36	1.02	8	7.3	1.10	0.50	2.23
71 Courtenay	40	0.77	9	10.9	0.82	0.39	1.61
72 Campbell River	36	1.09	4	7.0	0.57	0.18	1.55
75 Mission	28	0.87	3	6.9	0.44	0.11	1.36
76 Agassiz-Harrison	6	0.82	5	1.5	3.39 *	1.20	8.28
77 Summerland	15	0.94	0	3.4	-	-	-
78 Enderby	7	0.88	3	1.5	1.98	0.48	6.18
80 Kitimat	10	0.97	0	2.2	-	-	-
81 Fort Nelson	11	3.19 *	2	0.6	3.20	0.50	12.53
84 Vancouver Island West	1	0.37	3	0.6	5.05 +	1.22	15.72
85 Vancouver Island North	23	2.00 *	4	2.3	1.73	0.53	4.66
87 Stikine	3	1.99	0	0.3	-	-	-
88 Terrace	25	1.18	3	4.5	0.67	0.16	2.10
92 Nishga	1	0.86	0	0.2	-	-	-
94 Telegraph Creek	0	-	0	0.1	-	-	-
Provincial Total	**3,832**	-	**800**	-	-	-	-

Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p < 0.05$ two tailed). + Denotes significance based on less than five deaths. LHA 93, Eutsuk, excluded due to no residential population. Cases with unknown age, gender or non-residents are excluded. One case of unknown LHA was included.

FIGURE 21

STANDARDIZED MORTALITY RATIO FOR ALCOHOL-RELATED DEATHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1985-1989


STATISTICAL SIGNIFICANCE LEVEL
Significantly high, SMR within top 10%
Significantly high, SMR not within top 10%
Not significant
Significantly low
N
0
100
200
300 kms
see inset
0
50 kms

Note: SMR – Standardized mortality ratio.
Refer to Figure 1A, Page 5, for clarifying geographical location of Local Health Areas.

NOTES TO TABLE 39/FIGURE 21

A number of Local Health Areas (LHAs) had standardized mortality ratios (SMRs) for alcohol-related deaths that were statistically significantly higher or lower than the expected values.

- Two LHAs experienced significantly higher values than expected in both the 5 year period (1985-1989) and in 1990, respectively:
  - 30-South Cariboo SMRs = 2.34, 3.09
  - 39-Vancouver SMRs = 1.52, 1.54
- Two LHAs experienced significantly lower than expected values in both the 5 year period (1985-1989) and in 1990, respectively:
  - 34-Abbotsford SMRs = 0.59, 0.46
  - 23-Central Okanagan SMRs = 0.64, 0.49
- In 1990, both 76-Agassiz-Harrison (3.39) and 19-Revelstoke (3.47) LHAs had a significantly higher SMR although they were not significant over the previous 5 year period.
- In 1990, 45-West Vancouver-Bowen Island (0.46) LHA had a significantly lower SMR although it was not significantly low over the previous 5 year period.

TABLE 40

METHOD OF DISPOSITION OF DECEDENT

BRITISH COLUMBIA, 1985-1990

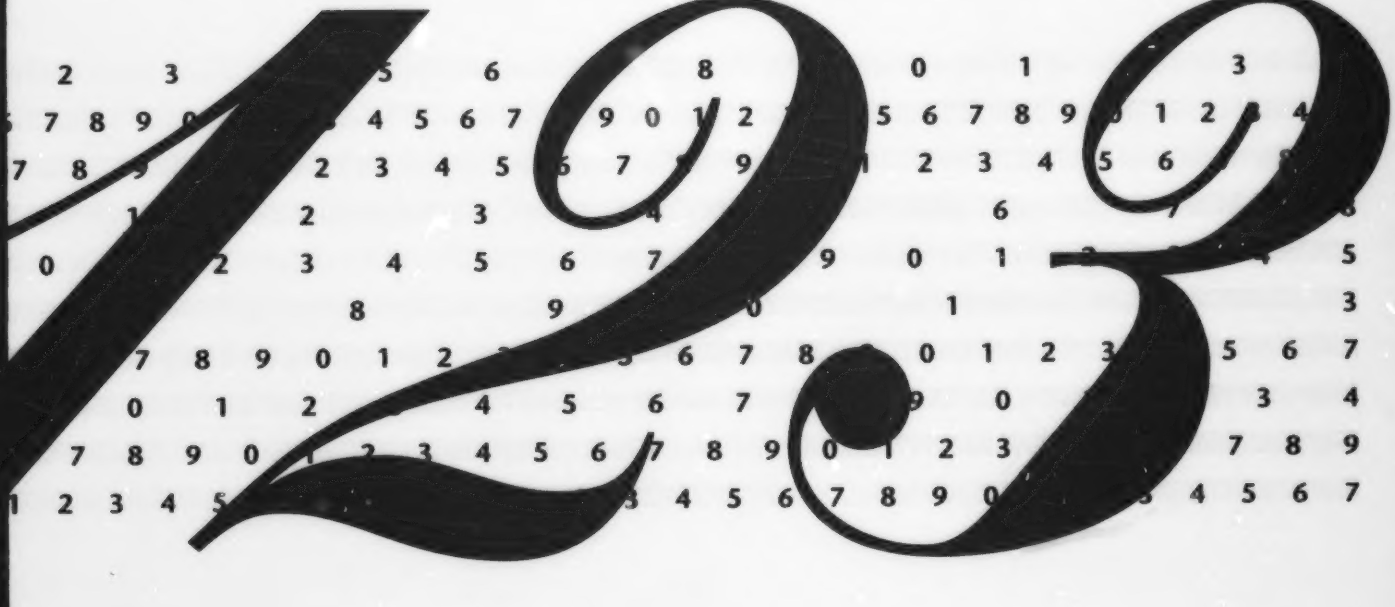
Year	Burial		Cremation		Other	N.S.	Total
	Number	Percent	Number	Percent	Number	Number	
1985	8,557	40.5	12,433	58.8	108	31	21,129
1986	8,205	39.1	12,687	60.4	98	18	21,008
1987	8,208	38.0	13,279	61.4	103	25	21,615
1988	8,325	37.3	13,871	62.2	95	20	22,295
1989	8,063	35.4	14,611	64.2	80	22	22,776
1990	8,202	35.1	15,087	64.5	89	11	23,389

Note: Percent is based on total deaths in the specified year.
Other includes donations as per will of deceased.
Numbers for 1985 - 1989 include late registrations and corrections.
Non-residents are excluded.
N.S. - Not stated.

NOTES TO TABLE 40

- Over the past 6 years there has been a steady decline in burials and an increase in cremations as a percentage of the method of disposition of the decedent.
- In 1990, 64.5% of decedents were cremated, compared to 58.8% in 1985.
- By contrast, only 35.1% of decedents were buried, compared to 40.5% in 1985.

Marriage-related Statistics



Summary

During 1990 there were 25,185 marriages solemnized in British Columbia:

- this figure represents a 0.1% (31) increase over the 1989 figure;
- of the total number of ceremonies, 48% (12,097) were religious and 43% (10,829) civil ceremonies, with 9% (2,259) unspecified (see Appendix I, Tables A & B);
- civil ceremonies have been increasing in recent years;
- the youngest bride to get married in British Columbia in 1990 was 15 years old, the oldest was 90;
- men maintained the trend of being slightly older prior to getting married, with the youngest groom being 16 years of age and the oldest being 93;
- for first marriages, the oldest bride was 74 years of age, while the oldest groom was 86 years of age; and,
- the average ages of first marriage for bride and groom were 25.7 and 28.0 years, respectively.

TABLE 41

MARRIAGES BY MARITAL STATUS OF BRIDE AND GROOM

BRITISH COLUMBIA, 1990

Marital Status of Bride	Marital Status of Groom Single	Widowed	Divorced	N. S.	Total
Single	15,176	106	2,719	-	18,001
Widowed	126	361	340	-	827
Divorced	2,379	344	3,628	1	6,352
N.S.	-	1	3	1	5
Total	**17,681**	**812**	**6,690**	**2**	**25,185**

Note: N.S. - Not stated

NOTES TO TABLE 41

In 1990, the number of marriages increased marginally from 1989.

- During 1990, the percentage of marriages where both the bride and groom had not previously been married was 60.3%.
- Marriages where both partners were divorced accounted for 14.4% of the total, while marriages where one partner was single and one was divorced accounted for 20.2% of the total.
- 29.8% of grooms and 28.5% of brides were marrying for at least the second time.

TABLE 42

MARRIAGES BY AGE OF BRIDE AND GROOM

BRITISH COLUMBIA, 1990

Age of Bride	Age of Groom (In years) <15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-59	60+	Total
< 15	-	-	-	-	-	-	-	-	-	-	-
15 - 19	-	152	769	245	52	8	4	-	-	-	1,230
20 - 24	-	84	3,114	3,015	782	184	52	14	6	2	7,253
25 - 29	-	11	691	3,541	2,098	709	242	78	29	13	7,412
30 - 34	-	3	117	759	1,412	912	436	157	65	15	3,876
35 - 39	-	-	27	171	396	608	509	241	151	26	2,129
40 - 44	-	1	4	35	116	206	355	273	233	62	1,285
45 - 49	-	-	2	3	26	50	109	179	311	97	777
50 - 59	-	1	-	1	5	16	36	64	344	257	724
60 +	-	-	-	-	-	-	4	4	55	436	499
Total	-	252	4,724	7,770	4,887	2,693	1,747	1,010	1,194	908	25,185

Note: Non-residents are excluded.

NOTES TO TABLE 42

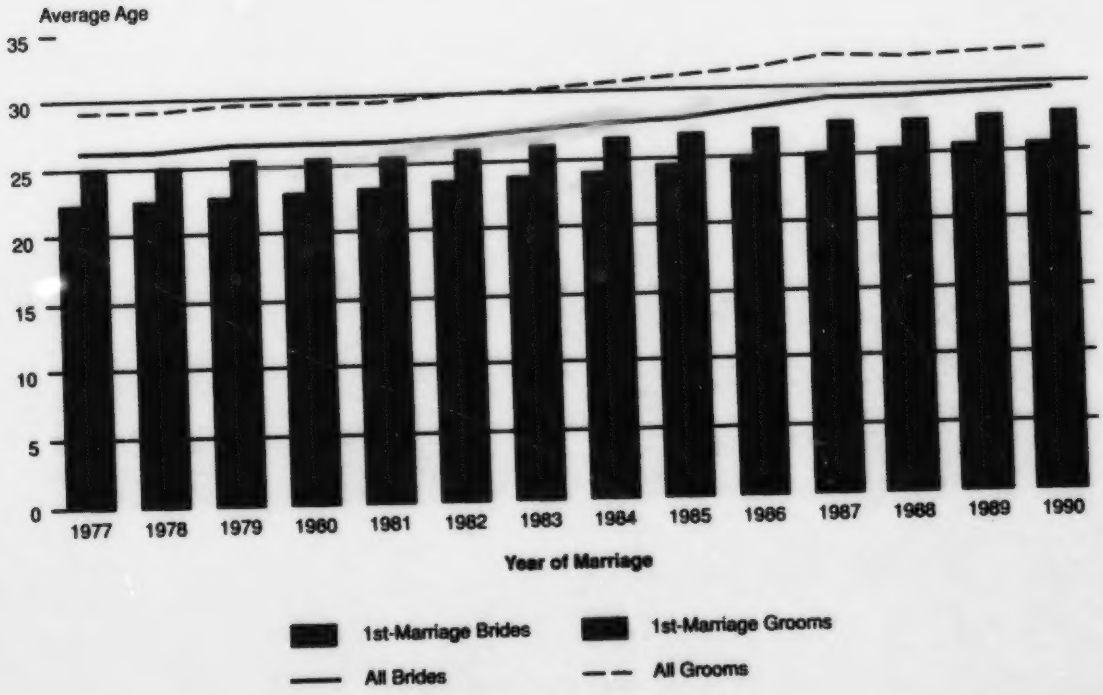
More than half of the people who got married during 1990 were in their twenties.

- 58.2% of the brides and 49.6% of the grooms were between 20 and 29 years of age.
- 4.9% of the brides and 1.0% of the grooms were teenagers.
- By contrast, 2.0% of the brides and 3.6% of the grooms were 60 years or older.

TABLE 43
AVERAGE AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 1977-1990

Year of Marriage	Average Age (in years)			
	First Marriage		All Marriages	
	Bride	Groom	Bride	Groom
1977	22.5	25.2	26.2	29.3
1978	22.7	25.2	26.3	29.3
1979	22.9	25.5	26.6	29.6
1980	23.1	25.5	26.6	29.6
1981	23.2	25.7	26.7	29.7
1982	23.6	26.0	26.9	30.0
1983	23.9	26.3	27.3	30.3
1984	24.2	26.6	27.7	30.8
1985	24.5	26.8	28.0	31.1
1986	24.7	27.1	28.5	31.6
1987	25.1	27.6	29.3	32.3
1988	25.3	27.6	29.2	32.2
1989	25.6	27.8	29.5	32.5
1990	25.7	28.0	29.6	32.6

FIGURE 22
AVERAGE AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 1977-1990



NOTES TO TABLE 43/FIGURE 22

- Over the past 14 years the average age of both brides and grooms has gradually increased, with the average age of grooms being a few years greater than the average age of brides.

TABLE 44

MARRIAGES BY USUAL RESIDENCE OF BRIDE AND GROOM

BRITISH COLUMBIA, 1990

Bride's Residence	Groom's Residence						Total	
	British Columbia	Other Provinces	U.S.A.	Europe	Asia	Other Countries	Number	Percent
British Columbia	22,794	290	294	65	48	41	23,532	93.4
Other Provinces	80	950	10	2	2	3	1,047	4.2
U.S.A.	92	6	230	2	2	3	335	1.3
Europe	36	2	1	61	-	-	100	0.4
Asia	80	3	2	2	36	-	123	0.5
Other Countries	15	2	2	-	-	29	48	0.2
Total – Number	**23,097**	**1,253**	**539**	**132**	**88**	**76**	**25,185**	**-**
– Percent	**91.7**	**5.0**	**2.1**	**0.5**	**0.3**	**0.3**	**-**	**100.0**

NOTES TO TABLE 44

- 4.1% (1,041) of marriages were performed to couples where one of the partners resided outside of British Columbia.
- 2.8% (701) marriages were performed to couples where one of the partners resided outside of Canada.
- 1.5% (370) marriages were performed to couples where neither partner resided in Canada. In particular these included couples, mainly from the U.S.A., Europe and Asia.

TABLE 45

MARRIAGES BY RELIGION OF BRIDE AND GROOM

BRITISH COLUMBIA, 1990

Religion of Bride	Religion of Groom											Total	
	Alliance	Anglican	Baptist	Catholic	Lutheran	Pentecostal	Sikh	United	Other	No Religion	N.S.	Number	Percent
Alliance	1,985	134	39	499	48	29	6	88	129	213	78	3,248	12.9
Anglican	174	758	55	535	103	16	2	342	138	244	110	2,477	9.8
Baptist	50	44	288	92	22	17	-	59	44	38	24	678	2.7
Catholic	403	447	75	1,864	146	49	1	479	285	645	209	4,603	18.3
Lutheran	68	102	24	153	155	15	1	87	53	111	44	813	3.2
Pentecostal	44	26	13	63	12	332	-	25	25	32	13	585	2.3
Sikh	6	4	-	6	-	-	501	-	7	3	2	529	2.1
United	131	351	56	535	96	34	1	1,010	151	267	81	2,713	10.8
Other	135	101	40	257	59	21	7	128	1,264	163	60	2,235	8.9
No Religion	131	137	28	471	60	10	1	120	106	3,055	13	4,132	16.4
N.S.	49	74	10	159	21	4	3	49	45	7	2,751	3,172	12.6
Total – Number	**3,176**	**2,178**	**628**	**4,634**	**722**	**527**	**523**	**2,387**	**2,247**	**4,778**	**3,385**	**25,185**	**-**
– Percent	**12.6**	**8.6**	**2.5**	**18.4**	**2.9**	**2.1**	**2.1**	**9.5**	**8.9**	**19.0**	**13.4**	**-**	**100.0**

Note: Each category represents similar religious denominations.

NOTES TO TABLE 45

- Within each religous group, marriages where both the bride and groom belonged to the same religion were greater than any single group of interdenominational marriages.
- In particular, individuals from the Sikh religion rarely married outside of the religion.
- Lutherans, however, were most likely to marry someone outside of their religion.
- Approximately 50% of marriages were between partners of different denominations.

Health Surveillance Registry

Summary

The following section of this report deals with statistics from the Health Surveillance Registry (H.S.R.), a data base of information pertaining to the frequency and distribution of certain illnesses and disabilities in the British Columbia population. Any person living in the Province who has a physical, mental and/or emotional problem that is likely to be permanently disabling, to interfere with education, or to prevent full and open employment, as well as anyone born in the Province with a familial condition or congenital malformation (even if it is not disabling) meets the criteria for inclusion in the Health Surveillance Registry. Since the Registry's conception in 1950, it has recorded over 190,000 cases.

The reporting of cases is voluntary and information is received from a variety of sources including vital records, Health Units, special treatment centres and hospitals. Physicians, however, do not report cases to the Registry. Statistics can be provided without restriction, but all identifying information is confidential. Personal information is available only to the agency that registered the case or upon approval of the Director of the Division of Vital Statistics.

Statistics in this section can be used in the planning and development of health care services by providing data on the incidence of birth defects and the distribution of chronic handicapping conditions. Statistics included in this section provide information on the rate of congenital anomalies, the average age at death for selected disabilities and the number of live diabetics.

The H.S.R. has been operated since 1952 and has undergone changes to its objectives, its registrable conditions, and its coverage of the age of the people registered. These changes are noted below:

1948 - 1950:
A survey was conducted in British Columbia from 1948 to 1950 for the purpose of determining the number of children with chronic handicapping diseases. The survey resulted in establishment of the "Crippled Children's Registry" in 1952.

1952 - 1953:
The "Crippled Children's Registry" was started. It had 3 main purposes:

- To obtain accurate knowledge of the magnitude of the problem of crippling diseases of children in British Columbia;
- To use this knowledge to aid in the development of facilities and organizations and to assist in the rehabilitation of these children; and,
- To assist physicians in the handling and referral of children with crippling diseases.

The Registry was to provide liaison with institutions and agencies for child care throughout the Province and disseminate information concerning the facilities available for the care and treatment of handicapped children.

The program defined registrable conditions as:

"Any child under 21 years of age who had a disability severe enough to interfere with normal living, obtaining an education and later earning a livelihood".

1954 - 1959:
The name of the Registry was changed to the "Registry for Handicapped Children", with the purposes and registrable conditions as before. The annual report on the Registry began to be published.

1960:
The name of the Registry was changed a second time to the "Registry for Handicapped Children and Adults" with the purposes and registrable conditions as before, except that the age restriction of 21 years was removed.

1960 - 1974:
The Registry's purposes and registrable conditions were changed as follows. The main characteristic of this stage of the Registry was that congenital malformations and inheritable conditions were included in the registry. Its purpose was redefined:

- To provide statistics showing the extent of the problem of chronic and genetic diseases in British Columbia; and,
- To assist physicians and local health services in the management of persons with handicapping conditions by providing liaison with the various institutions and services available throughout the Province.

Registrable conditions were redefined as:

"A person who possesses a physical, mental, and/or emotional problem that is likely to be permanently disabling, interfere with his education, or prevent full and open employment — including children with congenital malformations or familial conditions that may, or may not, be permanently disabling."

1975 - PRESENT:
The name of the Registry was changed a third time to the "Health Surveillance Registry", in order to reflect changes to its registrable conditions and purposes. Its purposes were:

- To ascertain, record, and classify handicapping conditions, congenital malformations, and genetic defects in the population of British Columbia, so as to provide a reliable basis for estimating the prevalence, incidence, and distribution of specific conditions;
- To assist health services and physicians in the ascertainment, diagnosis, monitoring and management of such conditions; and,
- To undertake statistical analysis of the data collected, and to assist medical and genetic research based on these data.

Its registrable conditions were:

"Any person who possesses chronic handicapping disabilities, genetic defects, congenital anomalies and specific "at risk" populations."

Since 1981 the annual report of the H.S.R. has been integrated into the annual report of the Division of Vital Statistics.

DEFINITION OF TERMS

CONGENITAL ANOMALIES
Physical defects in a person which existed or date from birth.

TABLE 46

NUMBER AND RATE OF CONGENITAL ANOMALIES BY HEALTH UNIT AND YEAR OF BIRTH FOR LIVE BIRTHS

BRITISH COLUMBIA, 1985-1988

	Year of Birth							
	1985		1986		1987		1988	
Health Unit	Number	Rate	Number	Rate	Number	Rate	Number	Rate
01 East Kootenay	30	27.1	42	39.1	35	36.8	22	22.9
02 Central Kootenay	68	69.2	49	55.4	30	37.6	24	30.8
04 North Okanagan	54	43.9	47	39.7	33	30.4	32	29.8
05 South Okanagan	69	37.3	89	49.2	94	55.6	77	43.9
06 South Central	69	42.9	81	52.6	79	53.2	65	43.0
07 Upper Fraser Valley	119	56.7	93	48.3	89	43.8	91	42.5
08 Central Fraser Valley	125	53.4	124	51.4	126	51.5	82	33.6
09 Boundary	292	66.5	227	49.9	228	49.8	221	45.8
10 Simon Fraser	200	82.3	167	67.5	135	54.8	87	32.6
11 Coast Garibaldi	52	66.5	51	63.7	40	50.4	48	62.1
13 Central Vancouver Island	120	49.7	105	48.0	83	37.8	84	37.4
14 Upper Island	80	57.9	82	56.9	47	36.5	46	34.6
15 Cariboo	60	51.4	64	60.1	73	65.5	39	38.9
16 Skeena	78	44.2	81	51.6	61	39.0	67	45.1
17 Peace River	37	28.3	51	43.9	52	49.1	52	48.2
18 Northern Interior	80	36.6	73	36.0	68	34.4	53	28.0
20 Capital Regional District	110	34.9	90	28.8	103	32.1	66	20.1
30 Vancouver	473	86.1	425	77.9	337	60.9	219	36.1
31 Burnaby	136	70.7	101	54.6	109	57.5	68	33.9
32 Richmond	110	67.4	91	58.5	106	64.5	54	32.2
33 North Shore	120	68.7	113	64.4	104	56.2	59	30.8
N.S.	3	-	4	-	4	-	-	-
Provincial Total	**2,485**	**57.8**	**2,250**	**53.8**	**2,036**	**48.9**	**1,556**	**36.3**

Note: Numbers shown represent number of anomalies (not number of births).
Rates per 1,000 live births in the specified area.
Congenital anomalies = ICD9 code 740 - 759.
Information for 1989 and 1990 births cannot be shown; 1989 is incomplete and 1990 is not available.
N.S. - Not stated

NOTES TO TABLE 46

- Over the four year period 1985 to 1988 the rate of reported congenital anomalies has decreased consistently each year from 57.8 in 1985 to 36.3 in 1988.
- There is considerable variability in rates from year to year within and between Health Units. This may reflect variations in the completeness of reporting to the Health Surveillance Registry.

TABLE 47

AVERAGE AGE AT DEATH FOR SELECTED DISABILITIES BY GENDER AS RECORDED TO YEAR-END, 1989

BRITISH COLUMBIA

Selected Disability	ICD9 Code	Male		Female	
		Average Age	Age Range	Average Age	Age Range
Late Effects of Polio	138	53.6	7- 81	55.8	2- 88
Cystic Fibrosis/Other Metabolism	277	15.4	<1- 72	14.2	<1- 72
Mental Retardation	317-319	23.4	<1- 90	20.2	<1- 93
A.L.S.*/Anterior Horn Cell Disease	335	46.9	<1- 81	45.8	<1- 84
Multiple Sclerosis	340	56.1	19- 89	56.3	12- 84
Paralytic Syndromes	342,344	61.9	<1- 98	64.5	<1- 99
Infantile Cerebral Palsy	343	18.8	<1- 78	17.9	<1- 94
Epilepsy	345	30.6	<1- 95	25.8	<1-104
Muscular Dystrophies	359	27.1	<1- 76	47.3	<1- 88
Blindness - One/Both Eyes	369	76.4	<1-107	81.0	<1-108
Chronic Renal Disease	582,585	50.9	<1- 96	52.2	1- 91
Systemic Lupus Erythematosis	710	61.3	22- 91	47.0	6- 90
Rheumatoid Athritis	714	66.6	3- 93	67.5	<1- 98
Ankylosing Spondylosis	720	61.2	16- 85	67.7	25- 88
Congenital Anomalies:					
Spina Bifida/Nervous System	741-742	2.7	<1- 79	2.5	<1- 70
Heart	745-746	2.8	<1- 96	2.5	<1- 81
Circulatory System	747	1.5	<1- 72	1.7	<1- 83
Digestive System	749-751	2.8	<1- 80	1.5	<1- 65
Urinary System	753	4.1	<1- 68	6.2	<1- 74
Chromosomal Anomalies	758	11.8	<1- 84	9.6	<1- 93

Note: * A.L.S. = Amyotrophic Lateral Sclerosis
Average age at death is based upon disabilities (not causes) and includes deaths from all causes (not just from the disability).

NOTES TO TABLE 47

Average age at death varied considerably by disability from a low of 1.5 to a high of 81.0.

- People with congenital anomalies, cystic fibrosis/other metabolism, or infantile cerebral palsy, had an average age at death that was less than 20 years.
- People with late effects of polio, mental retardation, A.L.S./anterior horn cell disease, multiple sclerosis, epilepsy, muscular dystrophies, and chronic renal disease had an average age at death of between 20 and 60 years.
- For all other selected disabilities the average age at death was greater than 60 years, except for systemic lupus erythematosis for women, for which the average age at death was 47.0 years.
- Average age of death was less than 10 years for congenital anomalies, with the exception of chromosomal anomalies for males, for which the average age at death was 11.8 years.

NOTES TO TABLE 48

At the end of 1989 there were a total of 12,510 live diabetics in the Province reported to the Registry.

- Live diabetics includes the more severe Type I Insulin Dependent Diabetes Mellitus (IDDM) and Type II non-IDDM.
- Males accounted for approximately 46% of the total.
- The number of diabetics by age group increased up to and including age group 65-84.

TABLE 48

NUMBER OF LIVE DIABETICS BY HEALTH UNIT, GENDER AND AGE AS RECORDED TO YEAR-END, 1989

BRITISH COLUMBIA

Health Unit	Gender	Age Group (In years)							Total
		<1	1-14	15-24	25-44	45-64	65-84	85+	
01 East Kootenay	M	-	5	19	35	68	49	10	186
	F	-	5	10	37	76	92	8	228
02 Central Kootenay	M	-	6	5	10	11	24	3	59
	F	-	6	7	15	14	46	4	92
04 North Okanagan	M	-	3	18	35	57	99	10	222
	F	-	2	17	49	85	109	19	281
05 South Okanagan	M	-	3	17	55	218	381	18	692
	F	-	7	26	93	235	393	18	772
06 South Central	M	-	2	10	37	19	33	3	104
	F	-	5	11	30	42	54	6	148
07 Upper Fraser Valley	M	-	9	17	23	68	83	3	203
	F	-	6	18	49	70	114	3	260
08 Central Fraser Valley	M	-	14	17	57	60	84	5	237
	F	-	13	12	69	67	81	4	246
09 Boundary	M	-	34	45	97	182	168	4	530
	F	-	28	41	157	171	225	6	628
10 Simon Fraser	M	-	10	18	71	196	170	3	468
	F	-	8	20	109	170	266	13	586
11 Coast-Garibaldi	M	-	3	4	14	18	26	1	66
	F	-	5	12	16	26	30	4	93
13 Central Vancouver Island	M	-	9	30	61	57	79	9	245
	F	-	11	27	68	74	101	18	299
14 Upper Island	M	-	7	20	29	91	89	4	240
	F	-	9	15	50	92	87	9	262
15 Cariboo	M	-	4	8	19	31	28	1	91
	F	-	6	10	27	31	31	2	107
16 Skeena	M	-	7	11	23	54	36	3	134
	F	-	7	10	44	54	52	9	176
17 Peace River	M	-	8	10	16	11	6	51	102
	F	-	7	9	20	9	18	1	64
18 Northern Interior	M	-	11	14	65	133	72	2	297
	F	-	6	14	73	134	84	10	321
20 Capital Regional District	M	-	13	37	72	63	96	17	298
	F	-	8	23	98	67	110	30	336
30 Vancouver	M	-	25	44	113	185	226	23	616
	F	-	18	37	243	216	266	37	817
31 Burnaby	M	-	6	11	45	129	162	15	368
	F	-	5	22	87	110	205	23	452
32 Richmond	M	-	8	20	59	127	123	9	346
	F	-	10	12	73	71	135	14	315
33 North Shore	M	-	4	5	32	39	60	4	144
	F	-	4	9	47	29	67	5	161
N.S.	M	-	1	10	45	29	29	4	118
	F	-	1	9	51	39	44	7	151
Provincial Total	**M**	**-**	**192**	**390**	**1,013**	**1,846**	**2,123**	**151**	**5,715**
	F	**-**	**177**	**371**	**1,505**	**1,882**	**2,610**	**250**	**6,795**

Note: Based on usual residence.
Non-Residents are excluded.
N.S. - Not stated

Glossary

Methods, Terms and Information

AGE-SPECIFIC FERTILITY RATE

The rate of live births per 1,000 women for the specific age group.
(See **Statistical Computation** for an example.)

AGE STANDARDIZED MORTALITY RATE (ASMR)

A summary of age and gender adjusted death rates that have been standardized to a specific population (such as the 1971 Canada Census) for the purpose of rate comparisons of different time periods or different geographic locations.
(See **Statistical Computation** for an example.)

AIDS

Acquired Immunodeficiency Syndrome. In 1987, the World Health Organization, in recognition of AIDS and HIV as important health concerns, created new ICD9 codes that allowed AIDS (042) and HIV (043-044) to be uniquely identified as causes of death and also provided differentiation among the complications of AIDS.

ASMR

See Age Standardized Mortality Rate.

BIRTHS

See Total Births.

BIRTH RATE

See Crude Rates.

BIRTH WEIGHT

The first weight of the fetus or newborn obtained after birth. This weight is measured within the first hour of life before significant postnatal weight loss has occurred.

BREECH

See Mode of Delivery.

CESAREAN

See Mode of Delivery.

CONFIDENCE INTERVAL

Lower and upper limits calculated so that a statistical test (eg. an average) will have a specified probability (usually 95%) of occurring in the range between the lower and upper limits. (See **Statistical Test** for an example.)

CONGENITAL ANOMALIES

Physical defects in a person, which existed or date from birth.

CRUDE RATES

The number of births, deaths or marriages divided by the mid-year population, usually converted to a rate based on 1,000 population. In the case of stillbirths, the number of stillbirths divided by total births, usually converted to a rate based on 1,000 births. (See **Statistical Computation** for an example.)

DEATH RATE

See Crude Rates.

EARLY NEONATAL DEATH

Death of a child under 7 days of age.

EXPECTED DEATHS

The number of deaths expected for an LHA based upon the age specific mortality rates for the province as a whole and the population age structure of the LHA. (See **Statistical Computation** for an example.)

FERTILITY RATE

(See **Statistical Computation** for an example.)

GENERAL FERTILITY RATE

The number of live births in a given year divided by the number of women of child bearing age (15 - 44) per 1,000 female population in the age group, as of the middle of that year. (See **Statistical Computaion** for an example.)

GESTATIONAL AGE

The duration of gestation that is measured from the first day of the last normal menstrual period. Gestational age is expressed in completed days or completed weeks (e.g. events occurring 280 to 286 days after the onset of the last normal menstrual period are considered to have occurred at 40 weeks gestation).

Pre-term - Less than 37 completed weeks (less than 259 days) of pregnancy.
Term - From 37 to less than 42 completed weeks (259 to 293 days) of pregnancy.
Post Term - 42 completed weeks or more (294 days or more) of pregnancy.

GFR

See General Fertility Rate.

HEALTH UNIT

A geographic unit used in planning and managing community health services in the Province. There are 21 health units in total.

HIV

Human Immunodeficiency Virus, the virus which causes AIDS.

HU

See Health Unit

ICD9 CODES

International Classification of Diseases Codes, 9th Revision, prescribed by the World Health Organization.

INCIDENCE

The number of cases in a specified time period.

INFANT MORTALITY

Death of a child under 1 year of age.

LBW

See Low Birth Weight.

LHA

See Local Health Area.

LIVE BIRTH

The complete expulsion or extraction from its mother, irrespective of the duration of the pregnancy, of a product of conception in which, after the expulsion or extraction, there is:

(a) breathing;
(b) beating of the heart;
(c) pulsation of the umbilical cord; or,
(d) unmistakable movement of voluntary muscle, whether or not the umbilical cord has been cut or the placenta attached.

LOCAL HEALTH AREA

A geographic unit which may be aggregated into either health units or regional hospital districts. There are 80 Local Health Areas in total, although LHA 93-Eutsuk has no residential population.

LOW BIRTH WEIGHT

A birth weight of less than 2,500 grams.

(See **Statistical Computation** for an example.)

MARRIAGE RATE
See Crude Rates.

MID-YEAR POPULATION
The estimated population at the midpoint of the year, which represents the average population for the year.

MODE OF DELIVERY

- **Spontaneous Vertex:**
  An unassisted (spontaneous) delivery.
- **Forceps or Suction:**
  An assisted delivery employing forceps or vacuum.
- **Breech:**
  A spontaneous or assisted delivery in which the buttocks or feet of the fetus appear first.
- **Cesarean:**
  A delivery involving the surgical incision of the abdomen and uterine walls.

MVA DEATHS
Motor Vehicle Accidental Deaths.

NATURAL INCREASE RATE
See Natural Population Increase.

NATURAL POPULATION INCREASE
The component increase in population attributable to the number of live births less deaths. This increase may often be expressed as a rate, such as per 1,000 population.

NEONATAL DEATH
Death of a child under 28 days of age.

OBSERVED DEATHS
The actual number of deaths that occurred in the LHA.

OUT OF WEDLOCK BIRTHS
Births where the mother of the baby is not legally married to the father of the baby.

P-VALUE
The value selected at which it is felt that the difference of observed values from the expected value are statistically significant, e.g. a p-value of 0.05 for a two tailed test (test for both higher and lower values) of the SMR for a LHA would be considered to be different from the expected value less than 5% of the time, due to random error (alternatively, the difference is considered to be significantly different 95% of the time).

PERINATAL DEATHS
Stillbirths plus early neonatal deaths.

POPULATION
The 1971 Canadian Census was used as standard population in this report. Population estimates for health units or local health areas were from the Planning and Statistics Division, Ministry of Finance and Corporate Relations and mid-year population for the province were obtained from Statistics Canada.

POST NEONATAL DEATH
Death of a child between the ages of 28 days to less than one year.

POST-TERM
See Gestational Age.

POTENTIAL YEARS OF LIFE LOST (PYLL)
The number of years of life lost when a person dies before the age of 75 years (assumed to be the maximum normal age). In this report, all deaths are assumed to occur at the midpoint of five year age groups.
(See **Statistical Computation** for an example.)

PYLL INDEX (PYLLI):
The ratio of an area's total PYLL to its expected PYLL.
(See **Statistical Computation** for an example.)

PYLL STANDARD RATE (PYLLSR):
An age standardized measure of an area's PYLL, expressed in terms of per k population, utilizing a standard population (1971 Canada Census population).
(See **Statistical Computation** for an example.)

SMR
See Standardized Mortality Ratio.

SPONTANEOUS VERTEX
See Mode of Delivery.

STD (STANDARD) RATE OF PYLL
See PYLL Standard Rate.

STANDARDIZED MORTALITY RATIO (SMR)
The ratio of the number of deaths occurring in a specified area (LHA) to the expected number of deaths in that area. The SMR (indirect method of standardization) is a good measure when comparing mortality data that is based on a small number of cases or when geographical comparisons are being made.
(See **Statistical Computation** for an example.)

STATISTICAL COMPUTATION

a) Fertility Rate:

Age Group (i)	LHA : Fernie		
	Live Births (b_i)	Women Population (w_i)	Age Specific Fertility Rate ($ASFR_i$)
15-19	19	598	31.8
20-24	46	440	104.5
25-29	74	498	148.6
30-34	51	745	68.5
35-39	12	690	17.4
40-44	2	581	3.4
Total	204	3,552	374.2

For the Fernie Local Health Area:

1) Age-Specific Fertility Rate (ASFR) for age group 15-19 years:

$$ASFR_i = \frac{b_i}{w_i} \text{x}1{,}000 = \frac{19}{598} \text{x}1{,}000 = 31.8$$

Where: b_i = number of live births for age group i.
w_i = number of female population for age group i.

2) General Fertility Rate (GFR):

$$GFR = \frac{B}{W} \text{x}1{,}000 = \frac{204}{3{,}552} \text{x}1{,}000 = 57.4$$

Where: $B = \Sigma b_i$ = total number of live births for mothers age 15-44 years.
$W = \Sigma w_i$ = total number of women of childbearing ages 15-44 years.
Σ = summation

3) Total Fertility Rate (TFR):

$$TFR = a \times \sum ASFR_i = 5 \times (31.8 + \ldots + 3.4) = 1{,}871$$

Where: $ASFR_i$ = Age-Specific Fertility Rate for age group i.
a = number of years in each age group i.

b) Low Birth Weight (LBW) Live Births:

	LHA : Prince George			British Columbia	
	Low Birth Weight Live Births				
Year (i)	Observed (O_i)	Expected (E_i)	Total Live Births (L_i)	Low Birth Weight Live Births Observed (b_i)	Total Live Births (B_i)
1985	92	82.9	1,701	2,096	42,989
1986	69	74.6	1,588	1,965	41,846
1987	102	80.2	1,582	2,113	41,655
1988	85	74.7	1,495	2,145	42,913
1989	91	78.1	1,501	2,267	43,586
Total	439	390.6	7,867	10,586	212,989

For the Prince George Local Health Area:

1) Expected Low Birth Weight Live Births for 1985:

$$E_i = \frac{b_i}{B_i} \times L_i = \frac{2{,}096}{42{,}989} \times 1{,}701 = 82.9$$

Where: b_i = number of LBW live births for the Province in 1985.
B_i = number of live births for the Province in 1985.
L_i = number of live births for the Prince George LHA.

2) Ratio of observed over the expected LBW live births:

$$Ratio = \frac{\sum O_i}{\sum E_i} = \frac{92 + \ldots + 91}{82.9 + \ldots + 78.1} = \frac{439}{390.6} = 1.1$$

Where: O_i = Observed LBW live births for year i.
E_i = Expected LBW live births for year i.

3) Chi-Square (χ^2) :

$$\chi^2 = \frac{(O - E)^2}{E} = \frac{(439 - 390.6)^2}{390.6} = 6.0$$

Where: O = $\sum O_i$ = total number of LBW live births in 1985-1989.
E = $\sum E_i$ = total number of expected LBW live births in 1985-1989.

c) Age Standardized Mortality Rate (ASMR):

Age Group (i)	Canada 1971 Population (π_i)	Abbotsford, 1990		
		Estimated Population (p_i)	Death Rate/10,000 (m_i)	Observed Deaths (d_i)
<1	355,870	1,339	22.4	3
1 - 4	1,460,285	5,483	1.8	1
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
80 - 84	204,170	1,198	701.2	84
85 +	137,390	908	1596.9	145
Total	21,568,315	81,016		561

For the Abbotsford Local Health Area:

$$ASMR = \frac{\Sigma m_i \times \pi_i}{\Pi} = \frac{22.4 \times 355{,}870 + \ldots + 1{,}596.9 \times 137{,}390}{21{,}568{,}315} = 46.2$$

Where: p_i = area population in age group i.
π_i = standard population in age group i.
Π = $\Sigma\pi_i$ = total standard population.
d_i = deaths in area population in age group i.
m_i = $(d_i/p_i)*10{,}000$ = mortality rate per 10,000 area population in age group i.

e.g., $m_i = \frac{3}{1{,}339} \times 10{,}000 = 22.4$

d) Standardized Mortality Ratio (SMR):

Age Group (i)	Abbotsford, 1990				British Columbia, 1990		
	Estimated Population (p_i)	Death Rate/1,000 (m_i)	Observed Deaths (d_i)	Expected Deaths (e_i)	Estimated Population (P_i)	Death Rate/1,000 (M_i)	Observed Deaths (D_i)
<1	1,339	2.2	3	10.3	42,700	7.7	328
1 - 4	5,483	0.2	1	1.9	172,500	0.4	61
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
80 - 84	1,198	70.1	84	87.2	48,100	72.8	3,502
85 +	908	159.7	145	138.8	34,500	152.8	5,272
Total	81,016		561	595.1	3,131,700		23,389

For the Abbotsford Local Health Area:

$$SMR = \frac{\Sigma d_i}{\Sigma e_i} = \frac{3 + \ldots + 145}{10.3 + \ldots + 138.8} = \frac{561}{595.1} = 0.9$$

Where: d_i = observed deaths in age group i.
e_i = expected deaths in age group i.

1) Observed Deaths (d) :

The actual number of deaths that occurred in the LHA.

2) Expected Deaths (e) :

The number of deaths expected for the LHA based upon the age-specific mortality rates for the province as a whole and the population age structure of the LHA. For age group under one year the expected death is:

$$e_i = \frac{D_i}{P_i} \times p_i = \frac{328}{42{,}700} \times 1{,}339 = 10.3$$

Where: D_i = provincial death for age group i.
p_i = LHA population for age group i.
P_i = provincial population for age group i.

e) Potential Years of Life Lost (PYLL) and Standard Rate (PYLLSR):

Age Group (i)	Age Factor ($75-Y_i$)	Canada 1971 Population (π_i)	Abbotsford, 1990			
			Estimated Population (p_i)	Death Rate/1,000 (m_i)	Observed Deaths (d_i)	Observed PYLL ($d_i(75-y_i)$)
<1	74.5	355,870	1,339	2.2	3	223.5
1 - 4	72.0	1,460,285	5,483	0.2	1	72.0
5 - 9	67.5	2,254,005	6,553	0.2	1	67.5
.	.	.	.	.	.	
.	.	.	.	.	.	
.	.	.	.	.	.	
65 - 69	7.5	619,955	3,538	18.7	66	495.0
70 - 74	2.5	457,380	2,779	28.8	80	200.0
Total	-	21,568,315	79,140		239	3,183.0

For the Abbotsford Local Health Area:

$$PYLLSR = \frac{\sum m_i \times \pi_i \times (75 - Y_i)}{\Pi} = \frac{2.2 \times 355{,}870 \times 74.5 + \ldots + 28.8 \times 457{,}380 \times 2.5}{21{,}568{,}315} = 37.0$$

Where: p_i = area population in age group i.
π_i = standard population in age group i.
Π = $\sum \pi_i$ = total standard population.
d_i = deaths in area population in age group i.
Y_i = age at midpoint of age group i.
m_i = $(d_i/p_i) \times 1{,}000$ = mortality rate per 1,000 area population in age group i.

e.g., $m_i = \frac{3}{1{,}339} \times 1{,}000 = 2.2$

f) Potential Years of Life Lost Index (PYLLI):

		Abbotsford, 1990					British Columbia, 1990			
Age Group (i)	Age Factor ($75-Y_i$)	Estimated Population (p_i)	Death Rate/1,000 (m_i)	Observed Deaths (d_i)	Observed PYLL ($d_i \times (75-Y_i)$)	Expected PYLL (e_i)	Estimated Population (P_i)	Death Rate/1,000 ($D_i/P_i \times 1{,}000$)	Observed Deaths (D_i)	Observed PYLL ($D_i \times (75-Y_i)$)
<1	74.5	1,339	2.2	3	223.5	766.3	42,700	7.7	328	24,436.0
1 - 4	72.0	5,483	0.2	1	72.0	139.6	172,500	0.4	61	4,392.0
5 - 9	67.5	6,553	0.2	1	67.5	96.6	215,100	0.2	47	3,172.5
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
65 - 69	7.5	3,538	18.7	66	495.0	443.9	137,200	16.7	2,295	17,212.5
70 - 74	2.5	2,779	28.8	80	200.0	182.3	107,000	26.2	2,807	7,017.5
Total	-	79,140		239	3,183.0	5,100.0	2,966,500		11,068	200,265.5

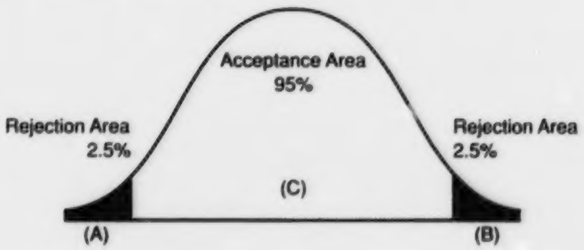
For the Abbotsford Local Health Area:

$$PYLLI = \frac{\Sigma d_i \times (75 - Y_i)}{\Sigma e_i \times (75 - Y_i)} = \frac{223.5 + \ldots + 200.0}{766.3 + \ldots + 182.3} = \frac{3{,}183.0}{5{,}100.0} = 0.6$$

Where: d_i = observed PYLL in age group i.
e_i = expected PYLL in age group i.
Y_i = age at midpoint of age group i.
p_i = LHA population for age group i.
P_i = provincial population for age group i.
D_i = provincial deaths for age group i.
m_i = $(d_i/p_i) \times 1{,}000$ = mortality rate per 1,000 area population in age group i.

STATISTICAL TEST

- **Chi-square test was applied to find whether the observed number of cases is significantly different from that expected.**
- **In testing a hypothesis (H_0: $\mu_0 = \mu_1$ vs. H_A: $\mu_0 \neq \mu_1$), the regions of acceptance and rejection are determined by specifying the level of significance (i.e. 5% level; $p<0.05$).**



- **Significantly high if μ_1 falls in the rejection area (B);**
- **Significantly low if μ_1 falls in the rejection area (A);**
- **Not significant if μ_1 falls in the acceptance area (C).**

- **The 95% confidence interval (C.I.) is defined as follows:**

95% C.I. = R ± 1.96 SE

Where: R = Rate; and,
SE = Standard Error of R.

This means that the probability of the true rate falling in the acceptance area is at least 95% by the two-tail test.

STILLBIRTH

The complete expulsion or extraction from its mother after at least 20 weeks' pregnancy, or after attaining a weight of at least 500 grams, of a product of conception in which, after the expulsion or extraction, there is no breathing, beating of the heart, pulsation of the umbilical cord or unmistakable movement of voluntary muscle.

STILLBIRTH RATE

See Crude Rates.

TERM

See Gestational Age.

TOTAL BIRTHS

The number of live births plus stillbirths.

TOTAL FERTILITY RATE

The rate is calculated by summing all of the age-specific birth rates multiplied by the number of years by which the age specific birth rates are grouped and it assumes the same number of women in each age group.

"The total fertility rate indicates the number of births that a group of 1,000 women would have if they experienced, during their childbearing years (i.e., age 15 to 44 years), the age-specific birth rates observed in a given calendar year. It is a hypothetical measure that shows the implications of current levels of fertility by age for completed family size." (National Center for Health Statistics. Supplements to the monthly vital statistics report: advance reports, 1987. National Center for Health Statistics. Vital Health Stat 24(4) p. 5. 1990).

(See **Statistical Computation** for an example.)

TOTAL PYLL

The total number of years of life lost from an established life expectancy (e.g. 75 years).

VERY LOW BIRTH WEIGHT

A birth weight of less than 1,500 grams.

Appendix 1

PRODUCTION-RELATED STATISTICS

Summary

The primary purpose of the Division of Vital Statistics is the ascertainment and registration of births, deaths and marriages, as well as the issuance of certificates related to those events. In addition, the Division maintains special purpose registries for registering cases of congenital anomalies and various handicapping conditions, maintaining records of adopted children and natural parents wishing to establish contract, and for the filing of wills notices.

Other services provided by the Division include:

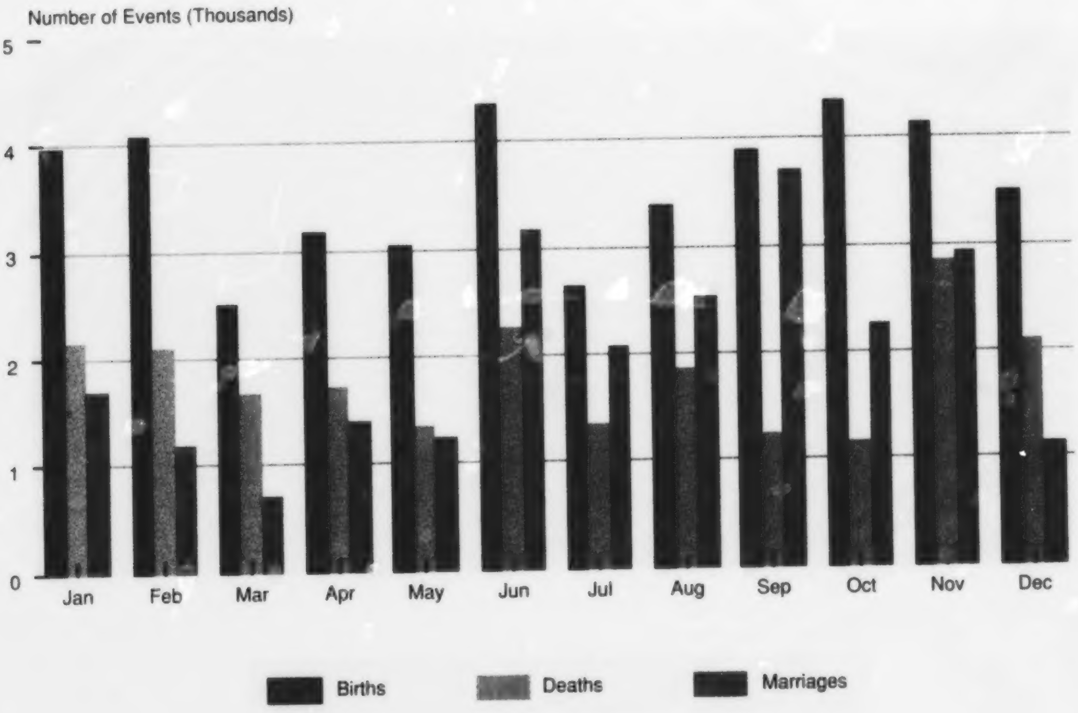
- issuance of marriage licences;
- appointing and training of individuals to act as District Registrars, Marriage Licence Issuers and Marriage Commissioners;
- legal change of name;
- special verification of details related to vital events;
- searches of the Wills Registry for wills notices;
- genealogical tracing; and,
- statistical and research services for various government programs, universities and some special interest research groups.

Vital Statistics services are provided through its offices in Victoria, Vancouver, Kelowna and Prince George and through Government Agents located throughout the Province. In some locations, District Registrar services are provided through municipal or town halls, hospitals or by private individuals. In addition to government outlets, marriage licences can be obtained from independent marriage licence issuers, (civil marriage ceremonies can be performed by private Marriage Commissioners). In most locations, death certificates may be provided by funeral homes.

FIGURE A

REGISTRATION OF EVENTS BY MONTH

BRITISH COLUMBIA, 1990



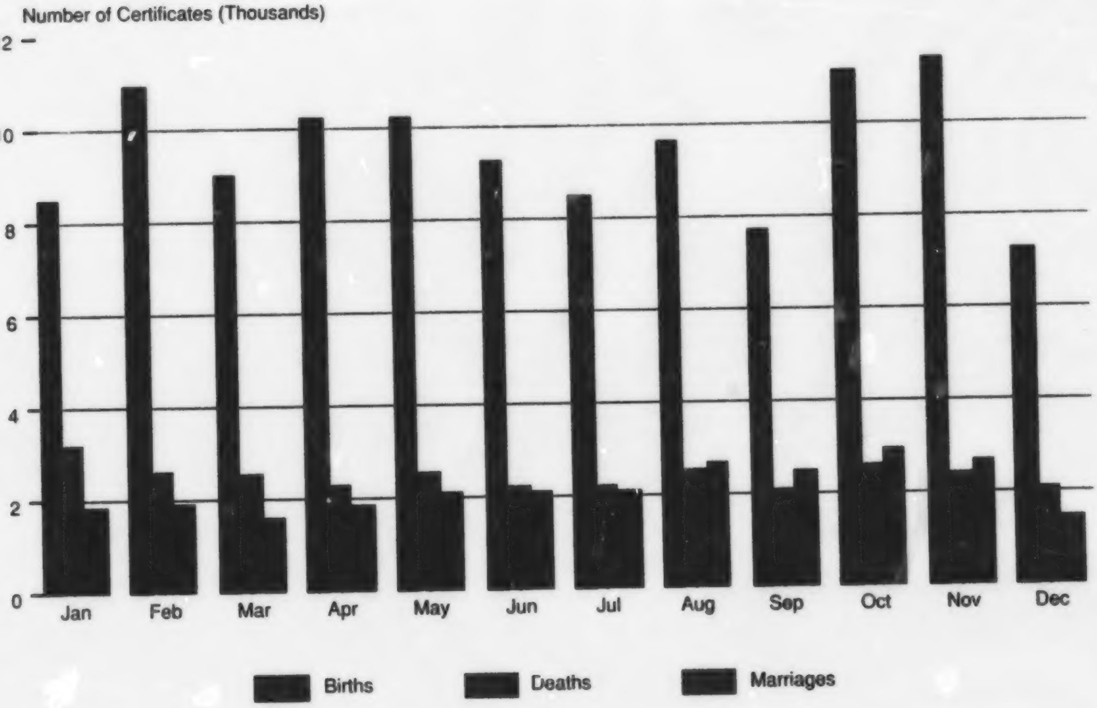
NOTES TO FIGURE A

The number of events registered by the Division of Vital Statistics on a monthly basis during 1990 is depicted in Figure A. The total number of registrations for each event during the year were as follows:

• Birth Registrations:	47,977;
• Death Registrations:	24,143;
• Marriage Registrations:	26,180.

The number of registrations differs from the number of occurrences because of time delays in registering events.

FIGURE B
CERTIFICATES ISSUED BY MONTH
BRITISH COLUMBIA, 1990



NOTES TO FIGURE B

The number of certificates issued by the Division of Vital Statistics, on a monthly basis during 1990, is depicted in Figure B. The total number of certificates issued during the year for each type of event were as follows:

• Birth Certificates:	113,873;
• Death Certificates:	29,633;
• Marriage Certificates:	26,046.

TABLE A

MINISTERS/CLERGYMEN ON REGISTER AND MARRIAGES PERFORMED BY RELIGIOUS DENOMINATION

BRITISH COLUMBIA, 1990

Denomination	Number of Ministers/ Clergymen	Number of Marriages Performed
Anglican	419	1,328
Apostolic	105	109
Baptist	455	733
Catholic	484	1,882
Christian Fellowship	27	43
Churches of Brethren	73	59
Churches of Christ	63	65
Churches of God	80	43
Convention of Faith	40	49
Evangelical	182	145
Glad Tidings	28	19
Gospel	81	102
Hindu*	6	67
Jehovahs Witnesses	88	166
Jewish	15	46
Later Day Saints	149	97
Lutheran	210	566
Mennonite	250	121
Methodist	26	23
Ministers Assocations	171	177
Missionaries Alliance	136	244
Muslim*	6	44
Nazarene	51	60
Orthodox	21	35
Pentecostal	322	384
Presbyterian	131	285
Reformed	106	222
Salvation Army	121	65
Seventh-Day Adventists	104	70
Sikh	48	247
Spiritualist	62	45
Unitarian	28	283
United	542	3,741
Others	224	532
Total – Religious**	**4,854**	**12,097**

Note: Denominations that performed fewer than 20 marriages and have less than 15 ministers are included in "Others" except those noted by *.

* Denominations which performed 20 or more marriages, but have less than 15 ministers.

** See the note on Table B.

Denominations/groups with less than 15 ministers are included in "Others", except the groups (*) which performed > 20 marriages.

Others includes ministers/clergymen where the religious denomination was not stated.

TABLE B

MARRIAGE COMMISSIONERS ON REGISTER BY TYPE AND MARRIAGES PERFORMED AS OF DECEMBER 31

BRITISH COLUMBIA, 1990

Type of Commissioner	Number of Commissioners	Number of Marriages Performed
Private Commissioner	154	10,770
Public Servant	40	59
Total - Civil	**194**	**10,829**

Note: Totals in Tables A and B do not include the 2,259 marriages where the type (religious/civil) was unknown.

NOTES TO TABLE B

Private Marriage Commissioners and appointed public servants may also perform marriages in British Columbia. The Division is committed to providing more private Marriage Commissioners who reflect the cultural composition of the citizens of the Province, and to increasing accessibility of services to all communities.

TABLE C

BABIES' MOST POPULAR NAMES

BRITISH COLUMBIA, 1990

Boy's Names		Girl's Names	
Name	Frequency	Name	Frequency
Michael	562	Jessica	522
Matthew	469	Amanda	393
Christopher	433	Sarah	350
Daniel	387	Ashley	333
Kyle	387	Stephanie	329
Ryan	374	Samantha	314
Jordan	360	Jennifer	312
David	340	Brittany	270
Andrew	335	Nicole	248
Joshua	333	Megan	233
Justin	324	Kayla	220
James	313	Michelle	212
Tyler	307	Melissa	210
Kevin	274	Chelsea	192
Nicholas	245	Emily	191
Robert	245	Kelsey	184
Brandon	237	Rebecca	167
Alexander	236	Laura	161
Cody	228	Danielle	156
Steven	226	Lauren	139
Jesse	207	Courtney	138
Sean	203	Alexandra	130
Adam	194	Amy	127
William	178	Erin	123
Travis	177	Christina	121

Note: Top 25 first given names are listed.

Appendix 2

DETAILED CAUSE OF DEATH BY GENDER AND AGE

APPENDIX 2

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
008	Intestinal infections due to other organisms	M	-	-	-	-	-	1	1	1	-	3	6
		F	-	-	-	-	-	-	-	-	-	3	3
011	Pulmonary tuberculosis	M	-	-	-	-	-	-	-	-	3	1	4
		F	-	-	-	-	-	-	-	1	2	1	4
038	Septicaemia	M	-	-	-	-	-	-	2	6	8	11	27
		F	1	-	-	-	-	-	1	4	11	18	35
042	HTLV-III/LAV infection with specified conditions	M	-	-	-	-	-	2	120	47	1	-	170
		F	-	-	-	-	-	1	-	3	-	-	4
070	Viral hepatitis	M	-	-	-	-	-	1	6	4	6	-	17
		F	-	-	-	-	1	-	-	1	3	-	5
079	Viral infection classified elsewhere and of unspecified site	M	-	-	-	-	-	-	-	-	1	2	3
		F	-	-	-	-	-	-	-	-	1	1	2
117	Other mycoses	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	2	1	1	4
136	Other and unspecified infectious and parasitic diseases	M	-	-	-	-	-	-	-	-	1	1	2
		F	1	-	-	-	-	-	1	-	1	-	3
137	Late effects of tuberculosis	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	3	-	3
141	Malignant neoplasm of tongue	M	-	-	-	-	-	1	2	7	6	-	16
		F	-	-	-	-	-	-	-	3	8	3	14
142	Malignant neoplasm of major salivary glands	M	-	-	-	-	-	-	1	2	1	-	4
		F	-	-	-	-	-	-	-	-	2	-	2
144	Malignant neoplasm of floor of mouth	M	-	-	-	-	-	-	-	1	-	-	1
		F	-	-	-	-	-	-	-	3	1	-	4
145	Malignant neoplasm of other and unspecified parts of mouth	M	-	-	-	-	-	-	-	3	7	1	11
		F	-	-	-	-	-	-	-	1	1	-	2
146	Malignant neoplasm of oropharynx	M	-	-	-	-	-	-	-	3	1	1	5
		F	-	-	-	-	-	-	1	1	5	-	7
147	Malignant neoplasm of nasopharynx	M	-	-	-	-	-	-	6	4	4	1	15
		F	-	-	-	-	-	-	-	1	-	-	1
148	Malignant neoplasm of hypopharynx	M	-	-	-	-	-	-	-	3	2	2	7
		F	-	-	-	-	-	-	-	1	2	-	3
149	Malig neo of oth and ill-defined sites of lip, oral cavity and pharynx	M	-	-	-	-	-	-	1	10	4	1	16
		F	-	-	-	-	-	-	-	1	5	1	7
150	Malignant neoplasm of oesophagus	M	-	-	-	-	-	-	2	27	42	13	84
		F	-	-	-	-	-	-	1	17	16	16	50
151	Malignant neoplasm of stomach	M	-	-	-	-	-	-	4	39	74	33	150
		F	-	-	-	-	-	1	4	11	35	33	84
152	Malignant neoplasm of small intestine, including duodenum	M	-	-	-	-	-	-	-	2	6	-	8
		F	-	-	-	-	-	-	-	-	1	1	2
153	Malignant neoplasm of colon	M	-	-	-	-	-	-	5	53	112	60	230
		F	-	-	-	-	-	-	8	49	116	77	250
154	Malignant neoplasm of rectum, rectosigmoid junction and anus	M	-	-	-	-	-	-	3	22	34	10	69
		F	-	-	-	-	-	-	1	9	27	25	62
155	Malignant neoplasm of liver and intrahepatic bile ducts	M	-	-	-	1	-	-	6	15	34	9	65
		F	-	1	-	1	-	-	3	10	17	5	37
156	Malignant neoplasm of gallbladder and extrahepatic bile ducts	M	-	-	-	-	-	-	1	6	24	3	34
		F	-	-	-	-	-	-	1	7	20	18	46
157	Malignant neoplasm of pancreas	M	-	-	-	-	-	-	-	41	78	44	163
		F	-	-	-	-	-	-	6	24	104	40	174
158	Malignant neoplasm of retroperitoneum and peritoneum	M	-	-	-	-	-	-	-	3	-	-	3
		F	-	-	-	-	-	-	-	-	3	-	3
159	Malig neo of oth and ill-defined sites of digest organs and peritoneum	M	-	-	-	-	-	-	1	24	40	19	84
		F	-	-	-	-	-	-	-	12	31	29	72
161	Malignant neoplasm of larynx	M	-	-	-	-	-	-	1	12	13	7	33
		F	-	-	-	-	-	-	-	4	6	-	10
162	Malignant neoplasm of trachea, bronchus and lung	M	-	-	-	-	-	-	14	274	572	183	1043
		F	-	-	-	-	-	-	16	188	342	91	637
163	Malignant neoplasm of pleura	M	-	-	-	-	-	-	1	4	8	2	15
		F	-	-	-	-	-	-	-	-	1	-	1
164	Malignant neoplasm of thymus, heart and mediastinum	M	-	-	1	-	-	-	-	2	1	1	5
		F	-	-	-	1	-	-	-	-	2	-	3

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
170	Malignant neoplasm of bone and articular cartilage	M	-	-	-	-	-	-	2	1	2	2	7
		F	-	-	-	1	1	-	-	-	2	-	4
171	Malignant neoplasm of connective and other soft tissue	M	-	-	1	-	-	-	1	3	5	2	12
		F	-	-	-	1	-	1	2	2	4	-	10
172	Malignant melanoma of skin	M	-	-	-	-	-	-	17	17	15	4	53
		F	-	-	-	-	-	-	6	7	8	5	26
173	Other malignant neoplasm of skin	M	-	-	-	-	-	-	2	3	6	2	13
		F	-	-	-	-	-	-	-	-	4	2	6
174	Malignant neoplasm of female breast	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	43	199	209	101	552
179	Malignant neoplasm of uterus, part unspecified	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	2	4	18	11	35
180	Malignant neoplasm of cervix uteri	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	8	8	21	6	43
182	Malignant neoplasm of body of uterus	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	5	18	7	30
183	Malignant neoplasm of ovary and other uterine adnexa	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	14	41	77	26	158
184	Malignant neoplasm of other and unspecified female genital organs	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	1	8	9
185	Malignant neoplasm of prostate	M	-	-	-	-	-	-	-	44	201	167	412
		F	-	-	-	-	-	-	-	-	-	-	-
188	Malignant neoplasm of bladder	M	-	-	-	-	-	-	-	12	44	43	99
		F	-	-	-	-	-	-	-	5	16	27	48
189	Malignant neoplasm of kidney and other and unspecified urinary organs	M	-	-	-	-	-	-	3	23	47	16	89
		F	1	-	-	-	-	-	1	7	36	14	59
191	Malignant neoplasm of brain	M	1	1	2	1	-	1	13	31	33	6	89
		F	-	-	2	-	-	-	5	30	29	6	72
192	Malignant neoplasm of other and unspecified parts of nervous system	M	-	-	-	-	-	-	1	-	2	2	5
		F	-	-	-	-	-	-	-	-	-	-	-
193	Malignant neoplasm of thyroid gland	M	-	-	-	-	-	-	-	3	2	-	5
		F	-	-	-	-	-	-	-	2	4	-	6
194	Malignant neoplasm of other endocrine glands and related structures	M	-	1	-	-	-	-	-	-	-	-	1
		F	-	-	-	-	-	-	2	-	2	-	4
195	Malignant neoplasm of other and ill-defined sites	M	-	-	-	-	-	-	-	1	3	4	8
		F	-	-	-	-	-	-	-	2	4	6	12
199	Malignant neoplasm without specification of site	M	-	-	-	-	-	-	2	48	89	37	176
		F	-	-	-	-	-	-	2	28	51	44	125
200	Lymphosarcoma and reticulosarcoma	M	-	-	-	-	-	-	-	2	3	1	6
		F	-	-	-	-	-	-	-	-	2	1	3
201	Hodgkin's disease	M	-	-	-	-	-	-	2	2	5	-	9
		F	-	-	-	-	-	-	-	2	2	3	7
202	Other malignant neoplasm of lymphoid and histiocytic tissue	M	-	-	-	-	-	-	8	21	37	19	85
		F	-	-	-	-	-	-	2	19	31	31	83
203	Multiple myeloma and immunoproliferative neoplasms	M	-	-	-	-	-	-	1	15	31	20	67
		F	-	-	-	-	-	-	-	9	25	12	46
204	Lymphoid leukaemia	M	-	-	1	1	-	-	-	5	16	11	34
		F	-	-	-	-	-	-	1	3	11	7	22
205	Myeloid leukaemia	M	-	-	-	-	-	-	6	12	17	9	44
		F	-	-	-	1	-	-	5	10	22	4	42
208	Leukaemia of unspecified cell type	M	1	1	-	-	1	-	-	6	10	6	25
		F	-	1	1	-	-	-	-	2	6	5	15
225	Benign neoplasm of brain and other parts of nervous system	M	-	-	-	-	-	-	-	2	-	2	4
		F	-	-	-	-	-	1	1	-	1	1	4
238	Neoplasm of uncertain behaviour of other and unspec sites	M	-	-	-	-	-	-	-	3	6	10	19
		F	-	-	-	-	-	-	-	2	8	14	24
239	Neoplasm of unspecified nature	M	-	-	-	-	-	-	2	3	6	2	13
		F	-	1	-	-	-	-	1	2	3	6	13
244	Acquired hypothyroidism	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	3	4	7

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
250	Diabetes mellitus	M	-	-	-	-	-	-	7	33	94	65	199
		F	-	-	1	-	-	-	6	32	94	94	227
263	Other and unspecified protein-calorie malnutrition	M	-	-	-	-	-	-	-	-	3	2	5
		F	-	-	-	-	-	-	-	-	5	12	17
272	Disorders of lipoid metabolism	M	-	-	-	-	-	-	-	-	4	1	5
		F	-	-	-	-	-	-	1	1	3	-	5
273	Disorders of plasma protein metabolism	M	-	-	-	-	-	-	-	-	1	3	4
		F	-	-	-	-	-	-	-	-	3	3	6
276	Disorders of fluid, electrolyte and acid-base balance	M	-	-	-	-	-	-	-	3	5	16	24
		F	-	-	-	-	-	-	-	1	9	23	33
277	Other and unspecified disorders of metabolism	M	-	-	-	-	1	-	1	4	3	3	12
		F	-	-	-	-	-	1	1	2	2	3	9
278	Obesity and other hyperalimentation	M	-	-	-	-	-	-	1	3	2	-	6
		F	-	-	-	-	-	-	1	4	4	1	10
284	Aplastic anaemia	M	-	-	-	-	-	-	-	1	6	4	11
		F	-	-	-	-	-	-	-	1	4	6	11
285	Other and unspecified anaemias	M	-	-	-	-	-	-	-	2	2	11	15
		F	-	-	-	-	-	-	-	1	5	12	18
286	Coagulation defects	M	-	-	-	-	-	-	2	-	3	-	5
		F	-	-	-	-	-	-	-	1	1	-	2
287	Purpura and other haemorrhagic conditions	M	-	-	-	-	-	-	-	-	1	-	1
		F	-	-	-	1	-	-	-	1	-	2	4
289	Other diseases of blood and blood-forming organs	M	-	-	-	-	-	-	-	1	2	4	7
		F	-	-	-	-	-	-	1	-	3	2	6
290	Senile and presenile organic psychotic conditions	M	-	-	-	-	-	-	-	1	12	20	33
		F	-	-	-	-	-	-	-	1	12	60	73
291	Alcoholic psychoses	M	-	-	-	-	-	-	-	3	2	1	6
		F	-	-	-	-	-	-	1	-	1	-	2
298	Other nonorganic psychoses	M	-	-	-	-	-	-	1	-	3	11	15
		F	-	-	-	-	-	-	-	-	7	46	53
303	Alcohol dependence syndrome	M	-	-	-	-	-	1	7	33	16	6	63
		F	-	-	-	-	-	-	6	8	5	-	19
304	Drug dependence	M	-	-	-	-	-	-	5	1	-	-	6
		F	-	-	-	-	-	1	2	-	1	-	4
305	Nondependent abuse of drugs	M	-	-	-	-	-	-	8	2	5	3	18
		F	-	-	-	-	-	-	2	4	3	-	9
310	Specific nonpsychotic mental disorders following organic brain damage	M	-	-	-	1	-	-	-	1	2	14	18
		F	-	-	-	-	-	-	-	-	9	21	30
311	Depressive disorder, not elsewhere classified	M	-	-	-	-	-	-	-	-	1	3	4
		F	-	-	-	-	-	-	-	-	1	6	7
320	Bacterial meningitis	M	-	-	1	-	1	-	-	2	-	-	4
		F	-	-	-	-	-	-	-	-	1	-	1
324	Intracranial and intraspinal abscess	M	-	-	-	-	-	-	-	4	1	-	5
		F	-	-	-	-	-	-	-	-	-	-	-
331	Other cerebral degenerations	M	-	-	-	-	1	-	-	2	48	54	105
		F	-	1	-	1	-	-	-	4	51	86	143
332	Parkinson's disease	M	-	-	-	-	-	-	-	-	32	32	64
		F	-	-	-	-	-	-	-	1	17	24	42
333	Other extrapyramidal disease and abnormal movement disorders	M	-	-	-	-	-	-	-	3	5	1	9
		F	-	-	-	-	-	-	-	2	3	1	6
334	Spinocerebellar disease	M	-	-	-	-	-	-	-	1	3	-	4
		F	-	-	-	-	-	-	-	-	4	-	4
335	Anterior horn cell disease	M	1	-	-	-	-	-	4	8	8	6	27
		F	-	-	-	-	-	-	-	10	16	5	31
340	Multiple sclerosis	M	-	-	-	-	-	-	4	3	7	1	15
		F	-	-	-	-	-	-	9	5	7	-	21
342	Hemiplegia	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	1	7	8
343	Infantile cerebral palsy	M	-	-	-	-	-	-	5	-	-	-	5
		F	-	-	-	-	1	-	-	1	-	-	2

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
344	Other paralytic syndromes	M	-	-	-	-	-	-	-	3	1	1	5
		F	-	-	-	-	-	-	-	-	2	2	4
345	Epilepsy	M	-	-	-	-	1	3	6	6	-	2	18
		F	-	-	-	-	1	-	2	4	1	1	9
348	Other conditions of brain	M	1	-	-	-	-	-	-	2	4	4	11
		F	-	-	-	-	-	-	2	1	1	5	9
359	Muscular dystrophies and other myopathies	M	-	-	-	1	3	-	2	2	1	-	9
		F	1	-	-	-	1	-	-	2	1	-	5
394	Diseases of mitral valve	M	-	-	-	-	-	-	-	3	2	2	7
		F	-	-	-	-	-	-	-	1	8	3	12
396	Diseases of mitral and aortic valves	M	-	-	-	-	-	-	-	4	5	-	9
		F	-	-	-	-	-	-	1	1	3	6	11
397	Diseases of other endocardial strucures	M	-	-	-	-	-	-	-	-	1	-	1
		F	-	-	-	-	-	-	1	2	1	3	7
398	Other rheumatic heart disease	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	2	1	1	4
401	Essential hypertension	M	-	-	-	-	-	-	-	1	5	3	9
		F	-	-	-	-	-	-	-	-	7	7	14
402	Hypertensive heart disease	M	-	-	-	-	-	-	-	6	16	7	29
		F	-	-	-	-	-	-	-	2	5	17	24
403	Hypertensive renal disease	M	-	-	-	-	-	-	-	2	3	9	14
		F	-	-	-	-	-	-	1	3	4	11	19
404	Hypertensive heart and renal disease	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	4	4	8
410	Acute myocardial infarction	M	-	-	-	-	-	-	27	302	798	471	1,598
		F	-	-	-	-	-	1	4	71	451	566	1,093
411	Other acute and subacute forms of ischaemic heart disease	M	-	-	-	-	-	-	-	9	9	3	21
		F	-	-	-	-	-	-	-	3	4	7	14
412	Old myocardial infarction	M	-	-	-	-	-	-	-	4	9	4	17
		F	-	-	-	-	-	-	-	-	1	-	1
413	Angina pectoris	M	-	-	-	-	-	-	1	1	4	2	8
		F	-	-	-	-	-	-	-	-	2	10	12
414	Other forms of chronic ischaemic heart disease	M	-	-	-	-	-	1	23	195	475	454	1,148
		F	-	-	-	-	-	-	2	53	298	594	947
415	Acute pulmonary heart disease	M	-	-	-	-	-	-	2	9	27	22	60
		F	-	-	-	-	-	-	2	3	20	20	45
416	Chronic pulmonary heart disease	M	-	-	1	-	-	-	-	1	4	6	12
		F	-	-	-	-	1	-	2	1	4	2	10
423	Other diseases of pericardium	M	-	-	-	-	-	-	-	2	5	1	8
		F	-	-	-	-	-	-	-	1	2	1	4
424	Other diseases of endocardium	M	-	-	-	-	-	-	2	4	35	30	71
		F	-	-	-	-	-	-	1	6	28	49	84
425	Cardiomyopathy	M	-	-	-	-	-	1	6	37	55	20	119
		F	1	-	-	1	-	-	-	8	20	15	45
427	Cardiac dysrhythmias	M	-	-	-	-	-	1	4	18	63	67	153
		F	-	1	-	-	2	-	5	7	57	113	185
428	Heart failure	M	-	-	-	-	-	-	-	4	47	128	179
		F	-	-	-	-	-	-	1	-	54	224	279
429	Ill-defined descriptions and complications of heart disease	M	-	-	-	-	-	-	3	17	18	20	58
		F	-	-	-	-	-	-	1	5	18	42	66
430	Subarachnoid haemorrhage	M	-	-	-	-	-	1	16	19	12	4	52
		F	-	1	-	-	-	-	13	31	30	8	83
431	Intracerebral haemorrhage	M	-	-	-	-	-	-	3	18	38	22	81
		F	-	1	-	-	-	-	3	17	53	30	104
432	Other and unspecified intracranial haemorrhage	M	-	-	-	-	-	-	1	3	9	5	18
		F	-	-	-	-	-	-	1	1	7	4	13
433	Occlusion and stenosis of precerebral arteries	M	-	-	-	-	-	-	-	3	4	1	8
		F	-	-	-	-	-	-	-	-	5	2	7
434	Occlusion of cerebral arteries	M	-	-	-	-	-	-	1	12	30	52	95
		F	-	-	-	-	-	-	2	7	35	69	113

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
435	Transient cerebral ischaemia	M	-	-	-	-	-	-	-	-	1	4	5
		F	-	-	-	-	-	-	-	-	1	5	6
436	Acute but ill-defined cerebrovascular disease	M	-	-	-	-	-	-	2	39	162	265	468
		F	-	-	-	-	-	-	1	10	162	495	668
437	Other and ill-defined cerebrovascular disease	M	-	-	-	-	-	-	-	1	16	25	42
		F	-	-	-	-	-	-	1	-	9	41	51
438	Late effects of cerebrovascular disease	M	-	-	-	-	-	-	-	4	20	25	49
		F	-	-	-	-	-	-	-	1	13	42	56
440	Atherosclerosis	M	-	-	-	-	-	-	-	3	30	67	100
		F	-	-	-	-	-	-	1	1	21	94	117
441	Aortic aneurysm	M	-	-	-	-	-	-	4	27	106	55	192
		F	-	-	-	-	-	-	-	8	29	45	82
442	Other aneurysm	M	-	-	-	-	-	-	-	-	2	2	4
		F	-	-	-	-	-	-	-	-	1	-	1
443	Other peripheral vascular disease	M	-	-	-	-	-	-	-	3	9	11	23
		F	-	-	-	-	-	-	1	1	8	15	25
444	Arterial embolism and thrombosis	M	1	-	-	-	-	-	-	2	-	1	4
		F	-	-	-	-	-	-	-	2	2	4	8
446	Polyarteritis nodosa and allied conditions	M	-	-	-	-	-	-	-	1	4	1	6
		F	-	-	-	-	-	-	-	-	-	3	3
447	Other disorders of arteries and arterioles	M	-	-	-	-	-	-	1	2	7	1	11
		F	-	-	-	-	-	-	-	2	4	4	10
451	Phlebitis and thrombophlebitis	M	-	-	-	-	-	-	-	2	2	2	6
		F	-	-	-	-	-	-	-	-	6	1	7
459	Other disorders of circulatory system	M	-	-	-	-	-	-	-	-	3	1	4
		F	1	-	-	-	-	-	-	1	1	-	3
466	Acute bronchitis and bronchiolitis	M	-	2	-	-	-	-	1	-	-	1	4
		F	-	-	-	-	-	-	-	-	1	3	4
480	Viral pneumonia	M	1	-	-	-	-	-	-	-	-	4	5
		F	1	-	-	-	-	-	-	-	1	3	5
481	Pneumococcal pneumonia	M	-	-	-	-	-	-	-	2	3	6	11
		F	-	-	-	-	-	-	-	4	4	10	18
482	Other bacterial pneumonia	M	-	-	-	-	-	-	-	1	3	2	6
		F	1	-	-	-	-	-	-	-	-	-	1
485	Bronchopneumonia, organism unspecified	M	-	-	-	-	-	-	3	5	43	75	126
		F	-	-	1	-	-	-	-	2	35	145	183
486	Pneumonia, organism unspecified	M	-	1	-	-	-	-	6	20	87	212	326
		F	-	-	-	-	-	1	3	12	60	235	311
487	Influenza	M	-	-	-	-	-	-	-	-	9	18	27
		F	-	-	-	-	-	1	-	-	5	27	33
490	Bronchitis, not specified as acute or chronic	M	-	-	-	-	-	-	-	-	5	4	9
		F	-	-	-	-	-	-	-	-	2	5	7
491	Chronic bronchitis	M	-	-	-	-	-	-	-	1	12	16	29
		F	-	-	-	-	-	-	-	3	11	7	21
492	Emphysema	M	-	-	-	-	-	-	-	11	56	29	96
		F	-	-	-	-	-	-	-	3	29	7	39
493	Asthma	M	-	-	1	-	-	-	4	7	13	9	34
		F	-	-	-	1	-	1	1	10	18	14	45
494	Bronchiectasis	M	-	-	-	-	-	-	-	-	3	4	7
		F	-	-	-	-	-	-	-	-	4	3	7
496	Chronic airways obstruction, not elsewhere classified	M	-	-	-	-	-	-	-	29	203	179	411
		F	-	-	-	-	-	-	-	18	102	80	200
502	Pneumoconiosis due to other silica or silicates	M	-	-	-	-	-	-	1	-	3	3	7
		F	-	-	-	-	-	-	-	-	-	-	-
507	Pneumonitis due to solids and liquids	M	-	-	-	-	-	-	1	1	4	18	24
		F	-	-	-	-	-	-	-	2	5	15	22
510	Empyema	M	-	-	1	-	-	-	-	1	1	-	3
		F	-	-	-	-	-	-	-	1	-	1	2
511	Pleurisy	M	-	-	-	-	-	-	1	-	1	1	3
		F	-	-	-	-	-	-	-	-	-	4	4

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
513	Abscess of lung and mediastinum	M	-	-	-	-	-	1	-	-	1	1	3
		F	-	-	-	-	-	-	-	1	3	-	4
514	Pulmonary congestion and hypostasis	M	-	-	-	-	-	-	-	1	-	4	5
		F	-	-	-	-	-	-	-	-	1	3	4
515	Postinflammatory pulmonary fibrosis	M	-	-	-	-	-	-	-	5	14	18	37
		F	-	-	-	-	-	-	-	2	10	11	23
516	Other alveolar and parietoalveolar pneumopathy	M	-	-	-	-	-	-	-	3	2	1	6
		F	-	-	-	-	-	-	-	-	4	2	6
518	Other diseases of lung	M	-	-	-	-	-	-	-	1	12	5	18
		F	-	-	-	-	-	-	-	4	8	2	14
519	Other diseases of respiratory system	M	-	-	-	-	1	-	-	2	3	2	8
		F	-	-	-	1	-	-	-	-	3	8	12
530	Diseases of oesophagus	M	-	-	-	-	-	-	-	1	6	8	15
		F	-	-	-	-	-	-	-	1	3	5	9
531	Gastric ulcer	M	-	-	-	-	-	-	-	3	4	-	7
		F	-	-	-	-	-	-	-	1	8	13	22
532	Duodenal ulcer	M	-	-	-	-	-	-	-	8	9	2	19
		F	-	-	-	-	-	-	-	-	9	8	17
533	Peptic ulcer, site unspecified	M	-	-	-	-	-	-	1	2	2	3	8
		F	-	-	-	-	-	-	-	1	3	6	10
535	Gastritis and duodenitis	M	-	-	-	-	-	-	3	2	7	3	15
		F	-	-	-	-	-	-	-	2	2	4	8
540	Acute appendicitis	M	-	-	1	-	-	-	-	1	-	2	4
		F	-	-	-	-	-	-	-	-	1	1	2
552	Other hernia of abdom cavity with obstruct, without mention of gangrene	M	-	-	-	-	-	-	-	-	1	4	5
		F	-	-	-	-	-	-	-	1	2	9	12
553	Other hernia of abdom cavity without mention of obstruction or gangrene	M	1	-	-	-	-	-	1	-	-	2	4
		F	-	-	-	-	-	-	-	-	1	1	2
556	Idiopathic proctocolitis	M	-	-	-	-	-	-	1	-	2	1	4
		F	-	-	-	-	-	-	-	-	-	2	2
557	Vascular insufficiency of intestine	M	-	-	-	-	-	-	-	3	15	12	30
		F	-	-	-	-	-	-	2	4	18	27	51
558	Other noninfective gastroenteritis and colitis	M	-	-	1	-	-	-	2	-	-	2	5
		F	-	-	-	-	-	-	-	1	2	5	8
560	Intestinal obstruction without mention of hernia	M	-	-	1	-	-	-	-	2	12	15	30
		F	-	-	-	-	-	-	2	2	7	46	57
562	Diverticula of intestine	M	-	-	-	-	-	-	-	-	11	11	22
		F	-	-	-	-	-	-	-	2	4	15	21
567	Peritonitis	M	-	-	-	-	-	-	-	-	3	3	6
		F	-	-	-	-	-	-	-	1	4	3	8
569	Other disorders of intestine	M	-	-	-	-	-	-	-	-	5	2	7
		F	-	-	-	-	-	-	-	1	5	4	10
570	Acute and subacute necrosis of liver	M	-	-	-	-	-	-	-	1	3	-	4
		F	-	-	-	-	-	1	-	1	1	-	3
571	Chronic liver disease and cirrhosis	M	-	-	-	-	-	-	15	86	54	13	168
		F	-	-	-	-	-	-	10	35	34	5	84
572	Liver abscess and sequelae of chronic liver disease	M	-	-	-	-	-	-	3	5	6	7	21
		F	-	-	-	-	-	-	2	4	6	4	16
573	Other disorders of liver	M	-	-	-	-	1	-	2	1	3	1	8
		F	-	-	-	-	-	-	-	1	3	2	6
574	Cholelithiasis	M	-	-	-	-	-	-	-	3	-	3	6
		F	-	-	-	-	-	-	-	1	2	4	7
575	Other disorders of gallbladder	M	-	-	-	-	-	-	-	-	4	4	8
		F	-	-	-	-	-	-	1	-	2	4	7
576	Other disorders of biliary tract	M	-	-	-	-	-	-	-	-	3	1	4
		F	-	-	-	-	-	-	-	2	1	2	5
577	Diseases of pancreas	M	-	-	-	-	-	-	1	5	6	1	13
		F	-	-	-	-	-	-	-	2	4	8	14
578	Gastrointestinal haemorrhage	M	-	-	-	-	-	-	-	4	10	21	35
		F	-	-	-	-	-	-	-	4	1	32	37

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
581	Nephrotic syndrome	M	-	-	-	-	-	-	-	-	2	1	3
		F	-	-	-	-	-	-	-	-	1	1	2
583	Nephritis and nephropathy, not specified as acute or chronic	M	-	-	-	-	-	-	-	2	-	-	2
		F	-	-	-	-	-	-	-	-	2	2	4
584	Acute renal failure	M	-	-	-	-	-	-	-	1	3	3	7
		F	-	-	-	-	-	-	-	-	2	3	5
585	Chronic renal failure	M	-	-	-	-	-	-	-	2	5	13	20
		F	-	-	-	-	-	-	1	8	6	18	33
586	Renal failure, unspecified	M	-	-	-	-	-	-	-	8	27	45	80
		F	-	1	-	-	-	-	-	4	22	44	71
590	Infections of kidney	M	-	-	-	-	-	-	1	2	2	6	11
		F	-	-	-	-	-	-	-	2	3	4	9
593	Other disorders of kidney and ureter	M	-	-	-	-	-	-	1	-	2	4	7
		F	-	-	-	-	-	1	-	3	3	-	7
599	Other disorders of urethra and urinary tract	M	-	-	-	-	-	-	1	1	2	13	17
		F	-	-	-	-	-	-	-	1	2	22	25
600	Hyperplasia of prostrate	M	-	-	-	-	-	-	-	-	4	3	7
		F	-	-	-	-	-	-	-	-	-	-	-
682	Other cellulitis and abscess	M	-	-	-	-	-	-	-	1	-	1	2
		F	-	-	-	-	-	-	-	-	2	3	5
707	Chronic ulcer of skin	M	-	-	-	-	-	-	1	-	-	2	3
		F	-	-	-	-	-	-	-	-	1	4	5
710	Diffuse diseases of connective tissue	M	-	-	-	-	-	-	-	1	5	1	7
		F	-	-	-	-	-	-	4	4	9	2	19
714	Rheumatoid arthritis and other inflammatory polyarthropathies	M	-	-	-	-	-	-	-	2	5	1	8
		F	-	-	-	-	-	-	-	4	19	8	31
715	Osteoarthrosis and allied disorders	M	-	-	-	-	-	-	-	-	1	3	4
		F	-	-	-	-	-	-	-	-	2	10	12
733	Other disorders of bone and cartilage	M	-	-	-	-	-	-	-	-	3	1	4
		F	-	-	-	-	-	-	-	-	3	7	10
737	Curvature of spine	M	-	-	-	-	-	-	-	-	1	-	1
		F	-	-	-	-	-	-	-	-	2	2	4
742	Other congenital anomalies of nervous system	M	4	2	-	-	-	-	-	-	2	-	8
		F	2	1	-	-	-	-	-	1	-	1	5
745	Bulbus cordis anomalies and anomalies of cardiac septal closure	M	4	-	-	-	-	-	1	-	-	-	5
		F	3	2	-	-	-	-	1	1	-	3	10
746	Other congenital anomalies of heart	M	12	3	1	1	-	1	-	-	-	-	18
		F	6	2	1	1	-	1	-	-	-	-	11
747	Other congenital anomalies of circulatory system	M	6	1	-	-	-	-	1	3	-	-	11
		F	2	1	-	-	-	-	1	1	-	-	5
748	Congenital anomalies of respiratory system	M	6	1	-	-	-	-	-	-	-	-	7
		F	3	-	-	-	-	-	-	-	-	-	3
753	Congenital anomalies of urinary system	M	3	-	-	-	-	-	-	-	1	1	5
		F	1	-	-	-	-	-	-	-	1	-	2
756	Other congenital musculoskeletal anomalies	M	5	-	-	-	-	-	-	-	-	-	5
		F	1	-	-	-	-	-	1	-	1	-	3
758	Chromosomal anomalies	M	4	-	-	-	-	-	-	1	-	-	5
		F	5	1	-	-	1	-	-	-	-	-	7
759	Other and unspecified congenital anomalies	M	5	1	-	-	-	-	2	1	-	-	9
		F	1	1	1	1	-	-	-	-	-	-	4
761	Fetus or newborn affected by maternal complications of pregnancy	M	16	-	-	-	-	-	-	-	-	-	16
		F	10	-	-	-	-	-	-	-	-	-	10
762	Fetus or newborn affect by complicat of placenta, cord and membranes	M	10	-	-	-	-	-	-	-	-	-	10
		F	4	-	-	-	-	-	-	-	-	-	4
765	Disorders relating to short gestation and unspecified low birth weight	M	7	-	-	-	-	-	-	-	-	-	7
		F	10	-	-	-	-	-	-	-	-	-	10
768	Intrauterine hypoxia and birth asphyxia	M	5	-	-	-	-	-	-	-	-	-	5
		F	4	-	-	-	-	-	-	-	-	-	4
769	Respiratory distress syndrome	M	12	-	-	-	-	-	-	-	1	-	13
		F	16	-	-	-	-	-	-	-	-	-	16

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
770	Other respiratory conditions of fetus and newborn	M	16	-	1	-	-	-	-	-	-	-	17
		F	17	-	-	-	-	-	-	-	-	-	17
771	Infections specific to the perinatal period	M	6	-	-	-	-	-	-	-	-	-	6
		F	1	-	-	-	-	-	-	-	-	-	1
797	Senility without mention of psychosis	M	-	-	-	-	-	-	-	-	-	6	6
		F	-	-	-	-	-	-	-	-	1	18	19
798	Sudden death, cause unknown	M	35	1	-	-	-	-	-	-	1	-	37
		F	22	1	-	-	-	-	-	-	1	-	24
799	Other ill-defined and unknown causes of morbidity and mortality	M	4	1	1	1	7	15	42	50	41	27	189
		F	9	2	1	-	3	5	19	25	41	57	162
805	Hit by rolling stock	M	-	-	-	-	1	-	-	2	-	1	4
		F	-	-	-	-	-	-	1	1	-	-	2
812	Oth motor vehicle traffic accident involv collision with anoth motor veh	M	-	-	1	2	9	23	47	20	8	3	113
		F	-	1	-	-	5	2	21	14	8	-	51
813	Motor vehicle traffic accident involving collision with other vehicle	M	-	-	3	1	1	-	3	-	-	-	8
		F	-	-	-	-	-	-	-	-	-	-	-
814	Motor vehicle traffic accident involving collision with pedestrian	M	-	2	2	3	7	4	19	14	9	9	69
		F	-	-	2	-	2	-	3	5	9	7	28
815	Other motor vehicle traffic accident involving collision on the highway	M	-	-	-	-	3	3	13	2	-	1	22
		F	-	-	-	-	1	-	1	1	1	-	4
816	Motor veh traffic accident due to loss of control, without collis on highway	M	-	-	-	2	14	15	45	11	1	1	89
		F	-	-	-	4	6	2	8	4	2	1	27
818	Other noncollision motor vehicle traffic traffic accident	M	-	-	-	-	2	1	5	2	1	-	11
		F	-	-	-	-	-	1	1	-	1	-	3
819	Motor vehicle traffic accident of unspecified nature	M	-	1	2	-	10	15	41	9	4	1	83
		F	-	-	-	2	5	3	4	8	2	1	25
820	Nontraffic accident involving motor-driven snow vehicle	M	-	-	-	-	1	-	1	1	1	-	4
		F	-	-	1	-	-	-	-	1	-	-	2
822	Oth motor veh nontraffic accident involv collision with moving object	M	-	2	2	1	-	-	2	-	1	-	8
		F	-	1	1	-	-	-	-	-	-	-	2
825	Other motor vehicle nontraffic accident of other and unspecified nature	M	-	1	-	-	1	1	1	3	-	-	7
		F	-	-	-	-	-	-	1	-	-	-	1
830	Accident to watercraft causing submersion	M	-	-	-	-	1	2	5	-	1	-	9
		F	-	-	-	-	-	-	-	-	-	-	-
832	Other accidental submersion or drowning in water transport accident	M	-	-	-	-	-	3	5	4	2	1	15
		F	-	-	-	-	-	-	-	-	1	-	1
841	Accident to powered aircraft, other and unspecified	M	-	-	1	-	-	4	5	6	-	-	16
		F	-	-	-	-	-	-	1	-	-	-	1
850	Accidental poisoning by analgesics, antipyretics, antirheumatics	M	-	-	-	-	-	1	26	6	1	-	34
		F	-	-	-	-	-	1	7	3	1	-	12
854	Accidental poisoning by other psychotropic agents	M	-	-	-	-	-	-	2	2	-	-	4
		F	-	-	-	-	-	1	1	-	-	-	2
855	Accidental poison by oth drugs act on central and autonomic nervous sys	M	-	-	-	-	-	2	17	1	-	-	20
		F	-	-	-	-	-	2	3	-	-	-	5
858	Accidental poisoning by other drugs	M	-	-	-	-	-	-	18	3	3	-	24
		F	-	-	-	-	1	-	5	6	-	1	13
860	Accidental poisoning by alcohol, not elsewhere classified	M	-	-	-	1	-	1	4	13	2	-	21
		F	-	-	-	-	-	-	-	2	-	-	2
868	Accidental poisoning by other utility gas and other carbon monoxide	M	-	-	-	-	-	1	2	3	-	-	6
		F	-	-	-	-	-	-	1	-	1	-	2
878	Surg op and oth proc as caus of abnrm react or latr compl, no men of mis	M	-	-	-	-	-	-	1	5	7	3	16
		F	-	-	-	-	1	-	-	4	7	13	25
879	Oth procs, no men of mis, as cause of abnorm react or later complication	M	-	-	-	-	-	-	-	2	-	1	3
		F	-	-	-	-	-	-	2	-	-	-	2
880	Fall on or from stairs or steps	M	-	-	-	-	-	-	2	2	2	2	8
		F	-	-	-	-	-	-	-	3	3	2	8
882	Fall from or out of building or other structure	M	-	-	-	-	1	1	5	3	3	-	13
		F	-	-	-	-	-	-	2	-	-	-	2
884	Other fall from one level to another	M	-	-	-	-	1	1	2	2	3	5	14
		F	-	-	-	-	-	-	-	-	1	12	13

APPENDIX 2 – *concluded*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1990

ICD9	Cause of Death	Gender	Age of Deceased (Years)										Total
			<1	1-4	5-9	10-14	15-19	20-24	25-44	45-64	65-79	80+	
885	Fall on same level from slipping, tripping or stumbling	M	-	-	-	-	-	-	-	-	-	7	7
		F	-	-	-	-	-	-	-	-	2	4	6
887	Fracture, cause unspecified	M	-	-	1	-	-	-	-	-	5	17	23
		F	-	-	-	-	-	-	-	-	8	43	51
888	Other and unspecified fall	M	-	-	1	-	1	2	8	7	32	38	89
		F	-	-	-	-	-	-	1	1	14	48	64
890	Conflagration in private dwelling	M	-	-	-	-	1	1	9	4	5	3	23
		F	-	2	-	1	1	1	5	5	2	1	18
904	Hunger, thirst, exposure, neglect	M	-	-	-	-	-	-	-	3	1	-	4
		F	-	-	-	-	-	-	-	1	-	-	1
909	Cataclysmic earth surface movements and eruptions	M	-	-	-	-	2	-	3	1	1	-	7
		F	-	-	-	-	-	-	1	-	1	-	2
910	Accidental drowning and submersion	M	-	5	3	2	5	4	15	4	1	1	40
		F	1	-	-	-	1	-	4	2	2	2	12
911	Inhalation and ingest of food caus obstruct of resp tract or suffocation	M	1	-	-	-	-	-	-	2	3	3	9
		F	-	-	-	1	1	-	1	-	2	8	13
913	Accidental mechanical suffocation	M	-	2	-	2	-	2	4	1	-	1	12
		F	-	1	-	-	-	1	1	2	1	-	6
916	Struck accidentally by falling object	M	-	-	-	-	-	2	13	5	2	1	23
		F	-	1	-	-	-	-	-	-	-	-	1
919	Accidents caused by machinery	M	-	1	-	-	-	1	7	7	1	1	18
		F	-	-	-	-	1	-	1	-	-	-	2
925	Accident caused by electric current	M	-	-	-	-	-	1	5	-	-	-	6
		F	-	-	-	-	-	-	-	-	-	-	-
928	Other and unspecified environmental and accidental causes	M	-	-	-	-	-	1	3	1	3	2	10
		F	-	-	-	-	-	-	-	-	1	1	2
929	Late effects of accidental injury	M	-	-	-	-	-	-	3	2	2	1	8
		F	-	-	-	-	-	-	1	1	1	1	4
950	Suicide and self-inflicted poisoning by solid or liquid substances	M	-	-	-	-	1	1	17	12	3	1	35
		F	-	-	-	-	1	2	19	9	7	4	42
952	Suicide and self-inflicted poisoning by other gases and vapours	M	-	-	-	-	-	2	16	13	5	2	38
		F	-	-	-	-	-	-	5	3	1	-	9
953	Suicide and self-inflicted injury by hanging, strangulation and suffocat	M	-	-	-	-	5	8	37	9	6	5	70
		F	-	-	-	-	2	1	3	2	4	-	12
954	Suicide and self-inflicted injury by submersion (drowning)	M	-	-	-	-	-	1	4	2	3	1	11
		F	-	-	-	-	-	-	-	3	-	-	3
955	Suicide and self-inflicted injury by firearms and explosives	M	-	-	-	-	9	9	45	19	14	2	98
		F	-	-	-	-	1	-	4	3	-	-	8
956	Suicide and self-inflicted injury by cutting and piercing instruments	M	-	-	-	-	-	-	7	2	-	-	9
		F	-	-	-	-	-	-	2	-	-	-	2
957	Suicide and self-inflicted injury by jumping from high place	M	-	-	-	-	1	1	9	4	1	2	18
		F	-	-	-	-	-	1	3	1	1	3	9
958	Suicide and self-inflicted injury by other and unspecified means	M	-	-	-	-	-	-	2	2	1	-	5
		F	-	-	-	1	-	1	1	1	1	-	5
963	Assault by hanging and strangulation	M	-	-	-	1	-	1	-	-	-	-	2
		F	-	1	-	-	2	-	-	1	-	-	4
965	Assault by firearms and explosives	M	-	-	-	-	4	2	13	5	2	-	26
		F	-	-	-	-	1	-	1	2	-	-	4
966	Assault by cutting and piercing instrument	M	-	-	-	-	1	3	11	4	2	-	21
		F	-	-	-	-	-	2	3	3	2	-	10
968	Assault by other and unspecified means	M	-	-	-	-	2	-	4	1	-	1	8
		F	1	-	-	-	1	-	3	1	-	-	6
980	Poison by solid or liquid subst, undeter whether acc or purpos inflicted	M	-	-	-	-	-	-	-	2	-	-	2
		F	-	-	-	-	-	1	-	1	-	1	3
988	Injury by oth and unspec means, undeter whether acc or purpos inflicted	M	-	-	-	-	-	1	1	1	1	-	4
		F	-	-	-	-	-	-	1	-	-	-	1
	Total Deaths	**M**	**186**	**33**	**33**	**26**	**106**	**160**	**1,031**	**2,315**	**4,928**	**3,871**	**12,689**
		F	**142**	**28**	**14**	**24**	**45**	**42**	**403**	**1,378**	**3,721**	**4,903**	**10,700**

Note: Above ICD9 codes, 800-999, indicate the external causes of death.
Non-residents are excluded.
Causes with less than a total of 5 deaths are not shown, but included in Total Deaths.

Appendix 3

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT

APPENDIX 3

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

H.U. = 01 : EAST KOOTENAY

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	1	3	0.1	0.1	2.5	1	75	4.7	3.0	74.5	2	77	2.0	1.5	38.5
–AIDS/HIV rl. 042-044	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Cancer 140-208	45	538	24.1	15.1	11.9	30	435	27.5	12.7	14.5	75	973	25.5	13.8	13.0
–Lung 162	15	138	6.2	3.6	9.2	5	68	4.3	2.3	13.5	20	205	5.4	2.9	10.3
–Fem. Breast 174	0	0	0.0	0.0	0.0	7	118	7.4	3.4	16.8	7	118	3.1	3.4	16.8
–Colorectal 153-154	7	93	4.2	2.6	13.2	2	20	1.3	0.7	10.0	9	113	3.0	1.7	12.5
–Cervical 180	0	0	0.0	0.0	0.0	1	43	2.7	1.0	42.5	1	43	1.1	1.0	42.5
–Prostate 185	5	33	1.5	0.8	6.5	0	0	0.0	0.0	0.0	5	33	0.9	0.8	6.5
End/Nut/Met. 240-279	2	40	1.8	0.9	20.0	4	25	1.6	0.8	6.3	6	65	1.7	0.8	10.8
–Diabetes 250	2	40	1.8	0.9	20.0	3	23	1.4	0.8	7.5	5	63	1.6	0.8	12.5
Circulatory 390-459	36	385	17.3	10.1	10.7	22	205	12.9	6.3	9.3	58	590	15.5	8.2	10.2
–Cor.Ht 410-414, 4292	30	340	15.3	8.9	11.3	15	138	8.7	4.3	9.2	45	478	12.5	6.7	10.6
–C.V./St 430-4, 436-8	1	13	0.6	0.3	12.5	3	48	3.0	1.5	15.8	4	60	1.6	0.9	15.0
–Arteries 440-448	3	13	0.6	0.3	4.2	2	15	0.9	0.3	7.5	5	28	0.7	0.3	5.5
Respiratory 460-519	14	215	9.6	6.9	15.3	5	88	5.5	2.4	17.5	19	302	7.9	4.8	15.9
–Pneu/Infl 480-487	6	50	2.2	1.3	8.3	1	38	2.4	0.8	37.5	7	88	2.3	1.1	12.5
–C.P.D.(+) 491-2, 496	6	40	1.8	0.9	6.7	1	3	0.2	0.0	2.5	7	43	1.1	0.5	6.1
–Asthma 493	0	0	0.0	0.0	0.0	2	20	1.3	0.7	10.0	2	20	0.5	0.3	10.0
Digestive 520-579	6	70	3.1	1.9	11.7	5	48	3.0	1.4	9.5	11	118	3.1	1.7	10.7
–Chr.Liv/Cirr 571	5	68	3.0	1.9	13.5	2	20	1.3	0.7	10.0	7	88	2.3	1.3	12.5
Cong. Anomaly 740-759	0	0	0.0	0.0	0.0	3	217	13.7	8.6	72.2	3	217	5.7	4.3	72.2
Perinatal 760-779	0	0	0.0	0.0	0.0	2	149	9.4	5.9	74.5	2	149	3.9	2.9	74.5
Ext. Causes E800-999	23	777	34.9	24.8	33.8	3	103	6.5	3.9	34.2	26	879	23.1	14.7	33.8
–M.V.Tr.Acc E810-819	6	190	8.5	6.2	31.7	0	0	0.0	0.0	0.0	6	190	5.0	3.2	31.7
–Poisoning E850-869	2	35	1.6	1.0	17.5	0	0	0.0	0.0	0.0	2	35	0.9	0.6	17.5
–Falls E880-888	1	8	0.3	0.2	7.5	0	0	0.0	0.0	0.0	1	8	0.2	0.1	7.5
–Suicide E950-959	4	105	4.7	2.6	26.3	0	0	0.0	0.0	0.0	4	105	2.8	1.3	26.3
All Other Causes	8	202	9.1	6.0	25.3	7	242	15.2	8.5	34.5	15	444	11.6	7.2	29.6
All Causes	135	2228	100.0	65.7	16.5	82	1584	100.0	53.5	19.3	217	3812	100.0	59.9	17.6

H.U. = 02 : CENTRAL KOOTENAY

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	3	88	3.2	2.3	29.2	1	18	1.1	0.5	17.5	4	105	2.4	1.4	26.3
–AIDS/HIV rl. 042-044	2	65	2.4	1.7	32.5	0	0	0.0	0.0	0.0	2	65	1.5	0.8	32.5
Cancer 140-208	50	555	20.5	13.2	11.1	55	768	48.1	19.7	14.0	105	1323	30.7	16.3	12.6
–Lung 162	17	168	6.2	3.7	9.9	17	203	12.7	4.7	11.9	34	370	8.6	4.2	10.9
–Fem. Breast 174	0	0	0.0	0.0	0.0	11	178	11.1	4.5	16.1	11	178	4.1	4.5	16.1
–Colorectal 153-154	5	53	1.9	1.2	10.5	1	13	0.8	0.3	12.5	6	65	1.5	0.8	10.8
–Cervical 180	0	0	0.0	0.0	0.0	1	8	0.5	0.1	7.5	1	8	0.2	0.1	7.5
–Prostate 185	4	10	0.4	0.1	2.5	0	0	0.0	0.0	0.0	4	10	0.2	0.1	2.5
End/Nut/Met. 240-279	3	38	1.4	1.0	12.5	4	35	2.2	0.8	8.8	7	73	1.7	0.9	10.4
–Diabetes 250	2	30	1.1	0.8	15.0	3	18	1.1	0.3	5.8	5	48	1.1	0.6	9.5
Circulatory 390-459	56	540	19.9	12.5	9.6	21	218	13.6	5.5	10.4	77	758	17.6	9.1	9.8
–Cor.Ht 410-414, 4292	43	373	13.8	8.0	8.7	8	80	5.0	1.8	10.0	51	453	10.5	5.0	8.9
–C.V./St 430-4, 436-8	5	88	3.2	2.8	17.5	6	60	3.8	1.6	10.0	11	148	3.4	2.2	13.4
–Arteries 440-448	3	38	1.4	0.9	12.5	3	33	2.0	0.8	10.8	6	70	1.6	0.8	11.7
Respiratory 460-519	6	30	1.1	0.5	5.0	3	13	0.8	0.2	4.2	9	43	1.0	0.3	4.7
–Pneu/Infl 480-487	2	10	0.4	0.2	5.0	2	10	0.6	0.2	5.0	4	20	0.5	0.2	5.0
–C.P.D.(+) 491-2, 496	3	13	0.5	0.2	4.2	1	3	0.2	0.0	2.5	4	15	0.3	0.1	3.8
–Asthma 493	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Digestive 520-579	6	142	5.2	4.8	23.7	3	78	4.9	1.7	25.8	9	220	5.1	3.3	24.4
–Chr.Liv/Cirr 571	3	53	1.9	1.4	17.5	1	3	0.2	0.0	2.5	4	55	1.3	0.7	13.8
Cong. Anomaly 740-759	2	87	3.2	3.4	43.5	0	0	0.0	0.0	0.0	2	87	2.0	1.7	43.5
Perinatal 760-779	0	0	0.0	0.0	0.0	1	75	4.7	3.2	74.5	1	75	1.7	1.6	74.5
Ext. Causes E800-999	28	1060	39.1	36.3	37.9	7	193	12.1	5.7	27.5	35	1253	29.1	21.4	35.8
–M.V.Tr.Acc E810-819	10	450	16.6	16.9	45.0	2	65	4.1	2.4	32.5	12	515	12.0	9.9	42.9
–Poisoning E850-869	1	18	0.6	0.4	17.5	0	0	0.0	0.0	0.0	1	18	0.4	0.2	17.5
–Falls E880-888	1	53	1.9	2.2	52.5	0	0	0.0	0.0	0.0	1	53	1.2	1.2	52.5
–Suicide E950-959	9	273	10.1	7.6	30.3	3	88	5.5	2.1	29.2	12	360	8.4	4.9	30.0
All Other Causes	8	170	6.3	5.7	21.3	8	202	12.7	7.1	25.3	16	372	8.6	6.4	23.3
All Causes	162	2709	100.0	79.6	16.7	103	1597	100.0	44.5	15.5	265	4306	100.0	62.4	16.2

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
H.U. = 04 : NORTH OKANAGAN															
Inf/Paras. D 001-139	4	130	3.2	3.0	32.4	1	13	0.7	0.2	12.5	5	142	2.4	1.6	28.4
–AIDS/HIV rl. 042-044	1	13	0.3	0.2	12.5	0	0	0.0	0.0	0.0	1	13	0.2	0.1	12.5
Cancer 140-208	79	893	21.7	15.9	11.3	59	723	37.8	13.8	12.2	138	1615	26.8	14.9	11.7
–Lung 162	32	330	8.0	5.8	10.3	11	78	4.1	1.4	7.0	43	408	6.8	3.6	9.5
–Fem. Breast 174	0	0	0.0	0.0	0.0	16	255	13.3	4.9	15.9	16	255	4.2	4.9	15.9
–Colorectal 153-154	7	68	1.6	1.2	9.6	5	28	1.4	0.5	5.5	12	95	1.6	0.8	7.9
–Cervical 180	0	0	0.0	0.0	0.0	2	35	1.8	0.6	17.5	2	35	0.6	0.6	17.5
–Prostate 185	5	28	0.7	0.4	5.5	0	0	0.0	0.0	0.0	5	28	0.5	0.4	5.5
End/Nut/Met. 240-279	7	83	2.0	1.5	11.8	4	30	1.6	0.4	7.5	11	113	1.9	1.0	10.2
–Diabetes 250	5	43	1.0	0.7	8.5	3	28	1.4	0.4	9.2	8	70	1.2	0.5	8.8
Circulatory 390-459	74	765	18.6	13.0	10.3	31	378	19.7	8.1	12.2	105	1143	19.0	10.6	10.9
–Cor.Ht 410-414, 4292	48	495	12.1	8.2	10.3	10	115	6.0	2.2	11.5	58	610	10.1	5.2	10.5
–C.V./St 430-4, 436-8	4	35	0.9	0.6	8.8	10	115	6.0	2.1	11.5	14	150	2.5	1.3	10.7
–Arteries 440-448	5	23	0.5	0.3	4.5	3	18	0.9	0.2	5.8	8	40	0.7	0.2	5.0
Respiratory 460-519	11	180	4.4	4.0	16.3	11	63	3.3	0.8	5.7	22	242	4.0	2.4	11.0
–Pneu/Infl 480-487	2	20	0.5	0.3	10.0	5	33	1.7	0.4	6.5	7	53	0.9	0.4	7.5
–C.P.D.(+) 491-2, 496	4	30	0.7	0.4	7.5	5	23	1.2	0.2	4.5	9	53	0.9	0.3	5.8
–Asthma 493	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Digestive 520-579	5	93	2.3	1.8	18.5	7	98	5.1	1.8	13.9	12	190	3.2	1.8	15.8
–Chr.Liv/Cirr 571	1	23	0.5	0.5	22.5	3	63	3.3	1.1	20.8	4	85	1.4	0.8	21.3
Cong. Anomaly 740-759	3	224	5.4	7.0	74.5	1	75	3.9	2.3	74.5	4	298	5.0	4.7	74.5
Perinatal 760-779	3	224	5.4	7.0	74.5	0	0	0.0	0.0	0.0	3	224	3.7	3.5	74.5
Ext. Causes E800-999	40	1295	31.6	30.6	32.4	15	363	19.0	8.5	24.2	55	1658	27.6	19.7	30.1
–M.V.Tr.Acc E810-819	15	523	12.7	12.9	34.8	4	90	4.7	1.9	22.5	19	613	10.2	7.4	32.2
–Poisoning E850-869	3	148	3.6	4.0	49.2	2	60	3.1	1.2	30.0	5	208	3.4	2.6	41.5
–Falls E880-888	2	5	0.1	0.1	2.5	2	15	0.8	0.2	7.5	4	20	0.3	0.1	5.0
–Suicide E950-959	9	228	5.5	5.1	25.3	4	105	5.5	2.5	26.3	13	333	5.5	3.8	25.6
All Other Causes	14	220	5.4	4.4	15.7	9	173	9.0	3.9	19.2	23	393	6.5	4.2	17.1
All Causes	240	4104	100.0	88.2	17.1	138	1912	100.0	39.8	13.9	378	6016	100.0	64.3	15.9
H.U. = 05 : SOUTH OKANAGAN															
Inf/Paras. D 001-139	2	5	0.1	0.0	2.5	1	23	0.6	0.3	22.5	3	28	0.3	0.2	9.2
–AIDS/HIV rl. 042-044	0	0	0.0	0.0	0.0	1	23	0.6	0.3	22.5	1	23	0.2	0.1	22.5
Cancer 140-208	121	1153	20.2	10.9	9.5	117	1363	37.8	14.2	11.6	238	2515	27.1	12.5	10.6
–Lung 162	44	355	6.2	3.0	8.1	30	315	8.7	3.0	10.5	74	670	7.2	2.9	9.1
–Fem. Breast 174	0	0	0.0	0.0	0.0	28	360	10.0	3.3	12.9	28	360	3.9	3.3	12.9
–Colorectal 153-154	7	88	1.5	0.9	12.5	10	55	1.5	0.5	5.5	17	143	1.5	0.7	8.4
–Cervical 180	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Prostate 185	9	73	1.3	0.5	8.1	0	0	0.0	0.0	0.0	9	73	0.8	0.5	8.1
End/Nut/Met. 240-279	7	68	1.2	0.6	9.6	3	53	1.5	0.6	17.5	10	120	1.3	0.6	12.0
–Diabetes 250	6	65	1.1	0.6	10.8	2	30	0.8	0.3	15.0	8	95	1.0	0.4	11.9
Circulatory 390-459	142	1385	24.3	13.4	9.8	44	325	9.0	2.5	7.4	186	1710	18.4	7.8	9.2
–Cor.Ht 410-414, 4292	93	758	13.3	6.7	8.1	25	158	4.4	1.1	6.3	118	915	9.8	3.8	7.8
–C.V./St 430-4, 436-8	15	158	2.8	1.6	10.5	13	123	3.4	1.1	9.4	28	280	3.0	1.3	10.0
–Arteries 440-448	7	63	1.1	0.6	8.9	1	3	0.1	0.0	2.5	8	65	0.7	0.3	8.1
Respiratory 460-519	20	135	2.4	1.0	6.8	13	113	3.1	0.9	8.7	33	248	2.7	1.0	7.5
–Pneu/Infl 480-487	5	53	0.9	0.5	10.5	4	30	0.8	0.2	7.5	9	83	0.9	0.3	9.2
–C.P.D.(+) 491-2, 496	13	78	1.4	0.5	6.0	6	45	1.2	0.4	7.5	19	123	1.3	0.4	6.4
–Asthma 493	0	0	0.0	0.0	0.0	3	38	1.0	0.4	12.5	3	38	0.4	0.2	12.5
Digestive 520-579	9	93	1.6	0.9	10.3	8	90	2.5	0.7	11.3	17	183	2.0	0.8	10.7
–Chr.Liv/Cirr 571	4	45	0.8	0.4	11.3	0	0	0.0	0.0	0.0	4	45	0.5	0.2	11.3
Cong. Anomaly 740-759	3	224	3.9	4.2	74.5	2	137	3.8	2.7	68.5	5	361	3.9	3.4	72.1
Perinatal 760-779	2	149	2.6	2.8	74.5	2	149	4.1	2.8	74.5	4	298	3.2	2.8	74.5
Ext. Causes E800-999	57	2063	36.2	31.1	36.2	26	870	24.1	12.7	33.5	83	2933	31.5	22.0	35.3
–M.V.Tr.Acc E810-819	24	945	16.6	14.7	39.4	17	603	16.7	9.2	35.4	41	1548	16.6	12.0	37.7
–Poisoning E850-869	1	53	0.9	1.0	52.5	2	70	1.9	0.7	35.0	3	123	1.3	0.9	40.8
–Falls E880-888	3	73	1.3	1.1	24.2	0	0	0.0	0.0	0.0	3	73	0.8	0.6	24.2
–Suicide E950-959	19	648	11.4	8.8	34.1	2	50	1.4	0.7	25.0	21	698	7.5	4.7	33.2
All Other Causes	28	422	7.4	5.1	15.1	26	482	13.4	6.2	18.5	54	904	9.7	5.7	16.7
All Causes	391	5695	100.0	70.0	14.6	242	3603	100.0	43.5	14.9	633	9298	100.0	56.8	14.7

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
H.U. = 06 : SOUTH CENTRAL															
Inf/Paras. D 001-139	3	88	1.6	1.3	29.2	0	0	0.0	0.0	0.0	3	88	1.1	0.6	29.2
–AIDS/HIV rl. 042-044	2	80	1.5	1.2	40.0	0	0	0.0	0.0	0.0	2	80	1.0	0.6	40.0
Cancer 140-208	63	878	16.4	14.9	13.9	45	698	30.2	12.1	15.5	108	1575	20.6	13.5	14.6
–Lung 162	27	378	7.1	6.1	14.0	17	213	9.2	3.8	12.5	44	590	7.7	5.0	13.4
–Fem. Breast 174	0	0	0.0	0.0	0.0	6	140	6.1	2.1	23.3	6	140	1.8	2.1	23.3
–Colorectal 153-154	4	45	0.8	0.8	11.3	5	53	2.3	1.0	10.5	9	98	1.3	0.8	10.8
–Cervical 180	0	0	0.0	0.0	0.0	2	50	2.2	0.7	25.0	2	50	0.7	0.7	25.0
–Prostate 185	4	40	0.7	0.7	10.0	0	0	0.0	0.0	0.0	4	40	0.5	0.7	10.0
End/Nut/Met. 240-279	1	8	0.1	0.1	7.5	2	25	1.1	0.5	12.5	3	33	0.4	0.3	10.8
–Diabetes 250	1	8	0.1	0.1	7.5	0	0	0.0	0.0	0.0	1	8	0.1	0.1	7.5
Circulatory 390-459	73	778	14.6	12.8	10.7	30	285	12.3	4.9	9.5	103	1063	13.9	9.0	10.3
–Cor.Ht 410-414, 4292	45	433	8.1	7.3	9.6	17	168	7.2	3.0	9.9	62	600	7.8	5.2	9.7
–C.V./St 430-4, 436-8	10	135	2.5	2.1	13.5	8	95	4.1	1.5	11.9	18	230	3.0	1.8	12.8
–Arteries 440-448	6	45	0.8	0.8	7.5	1	3	0.1	0.0	2.5	7	48	0.6	0.4	6.8
Respiratory 460-519	16	235	4.4	3.8	14.7	10	90	3.9	1.9	9.0	26	325	4.2	2.9	12.5
–Pneu/Infl 480-487	2	45	0.8	0.6	22.5	3	8	0.3	0.1	2.5	5	53	0.7	0.4	10.5
–C.P.D.(+) 491-2, 496	9	38	0.7	0.7	4.2	3	18	0.8	0.3	5.8	12	55	0.7	0.5	4.6
–Asthma 493	2	80	1.5	1.4	40.0	3	63	2.7	1.4	20.8	5	143	1.9	1.4	28.5
Digestive 520-579	7	98	1.8	1.6	13.9	10	160	6.9	2.6	16.0	17	258	3.4	2.1	15.1
–Chr.Liv/Cirr 571	3	33	0.6	0.5	10.8	4	65	2.8	1.0	16.3	7	98	1.3	0.8	13.9
Cong. Anomaly 740-759	0	0	0.0	0.0	0.0	2	132	5.7	3.2	66.0	2	132	1.7	1.6	66.0
Perinatal 760-779	4	298	5.6	7.0	74.5	0	0	0.0	0.0	0.0	4	298	3.9	3.5	74.5
Ext. Causes E800-999	60	2325	43.5	42.8	38.7	17	568	24.6	11.2	33.4	77	2892	37.8	27.2	37.6
–M.V.Tr.Acc E810-819	24	915	17.1	15.9	38.1	8	310	13.4	6.3	38.8	32	1225	16.0	11.1	38.3
–Poisoning E850-869	3	123	2.3	2.7	40.8	2	50	2.2	0.7	25.0	5	173	2.3	1.7	34.5
–Falls E880-888	0	0	0.0	0.0	0.0	2	20	0.9	0.4	10.0	2	20	0.3	0.2	10.0
–Suicide E950-959	14	630	11.8	11.8	45.0	4	160	6.9	3.3	40.0	18	790	10.3	7.7	43.9
All Other Causes	18	637	11.9	11.5	35.4	12	354	15.3	7.6	29.5	30	991	12.9	9.6	33.0
All Causes	245	5342	100.0	95.8	21.8	128	2311	100.0	44.0	18.1	373	7653	100.0	70.3	20.5
H.U. = 07 : UPPER FRASER VALLEY															
Inf/Paras. D 001-139	6	162	3.4	2.2	27.0	1	3	0.1	0.0	2.5	7	165	2.1	1.1	23.5
–AIDS/HIV rl. 042-044	2	70	1.5	0.9	35.0	0	0	0.0	0.0	0.0	2	70	0.9	0.4	35.0
Cancer 140-208	89	993	20.9	12.2	11.2	91	1063	36.3	13.6	11.7	180	2055	26.8	12.8	11.4
–Lung 162	27	278	5.8	3.4	10.3	25	293	10.0	3.7	11.7	52	570	7.4	3.5	11.0
–Fem. Breast 174	0	0	0.0	0.0	0.0	18	300	10.3	3.9	16.7	18	300	3.9	3.9	16.7
–Colorectal 153-154	10	120	2.5	1.6	12.0	7	58	2.0	0.6	8.2	17	178	2.3	1.1	10.4
–Cervical 180	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Prostate 185	4	30	0.6	0.3	7.5	0	0	0.0	0.0	0.0	4	30	0.4	0.3	7.5
End/Nut/Met. 240-279	4	50	1.1	0.6	12.5	7	118	4.0	1.5	16.8	11	168	2.2	1.1	15.2
–Diabetes 250	3	33	0.7	0.3	10.8	5	63	2.1	0.6	12.5	8	95	1.2	0.5	11.9
Circulatory 390-459	111	1068	22.5	12.8	9.6	42	405	13.8	4.6	9.6	153	1473	19.2	8.7	9.6
–Cor.Ht 410-414, 4292	79	728	15.3	8.8	9.2	20	165	5.6	1.8	8.3	99	893	11.6	5.4	9.0
–C.V./St 430-4, 436-8	11	103	2.2	1.1	9.3	13	128	4.4	1.5	9.8	24	230	3.0	1.3	9.6
–Arteries 440-448	9	93	1.9	1.0	10.3	2	25	0.9	0.3	12.5	11	118	1.5	0.7	10.7
Respiratory 460-519	26	175	3.7	1.7	6.7	13	73	2.5	0.6	5.6	39	248	3.2	1.2	6.3
–Pneu/Infl 480-487	9	63	1.3	0.6	6.9	3	23	0.8	0.2	7.5	12	85	1.1	0.4	7.1
–C.P.D.(+) 491-2, 496	11	48	1.0	0.4	4.3	6	35	1.2	0.3	5.8	17	83	1.1	0.3	4.9
–Asthma 493	1	13	0.3	0.1	12.5	2	10	0.3	0.1	5.0	3	23	0.3	0.1	7.5
Digestive 520-579	13	118	2.5	1.4	9.0	9	93	3.2	1.1	10.3	22	210	2.7	1.2	9.5
–Chr.Liv/Cirr 571	4	55	1.2	0.8	13.8	3	38	1.3	0.5	12.5	7	93	1.2	0.6	13.2
Cong. Anomaly 740-759	1	75	1.6	1.1	74.5	1	13	0.4	0.1	12.5	2	87	1.1	0.6	43.5
Perinatal 760-779	4	291	6.1	4.7	72.8	1	75	2.5	1.1	74.5	5	366	4.8	2.9	73.1
Ext. Causes E800-999	38	1390	29.3	19.1	36.6	19	692	23.6	11.0	36.4	57	2082	27.1	15.0	36.5
–M.V.Tr.Acc E810-819	19	763	16.1	10.9	40.1	8	335	11.4	5.6	41.9	27	1098	14.3	8.2	40.6
–Poisoning E850-869	1	33	0.7	0.4	32.5	1	28	0.9	0.5	27.5	2	60	0.8	0.4	30.0
–Falls E880-888	3	43	0.9	0.5	14.2	2	10	0.3	0.1	5.0	5	53	0.7	0.3	10.5
–Suicide E950-959	4	135	2.8	1.6	33.8	3	83	2.8	1.2	27.5	7	218	2.8	1.4	31.1
All Other Causes	19	425	8.9	5.9	22.3	24	395	13.5	5.2	16.5	43	820	10.7	5.6	19.1
All Causes	311	4745	100.0	61.7	15.3	208	2927	100.0	39.0	14.1	519	7671	100.0	50.2	14.8

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

H.U. = 08 : CENTRAL FRASER VALLEY

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	6	140	2.2	1.5	23.3	4	20	0.5	0.2	5.0	10	160	1.6	0.9	16.0
–AIDS/HIV rl. 042-044	3	108	1.7	1.2	35.8	0	0	0.0	0.0	0.0	3	108	1.1	0.6	35.8
Cancer 140-208	93	1133	18.1	12.5	12.2	98	1105	28.6	12.5	11.3	191	2238	22.1	12.5	11.7
–Lung 162	32	350	5.6	4.0	10.9	33	248	6.4	3.0	7.5	65	598	5.9	3.5	9.2
–Fem. Breast 174	0	0	0.0	0.0	0.0	27	398	10.3	4.5	14.7	27	398	3.9	4.5	14.7
–Colorectal 153-154	13	163	2.6	1.7	12.5	4	20	0.5	0.2	5.0	17	183	1.8	1.0	10.7
–Cervical 180	0	0	0.0	0.0	0.0	2	15	0.4	0.1	7.5	2	15	0.1	0.1	7.5
–Prostate 185	7	58	0.9	0.6	8.2	0	0	0.0	0.0	0.0	7	58	0.6	0.6	8.2
End/Nut/Met. 240-279	6	30	0.5	0.3	5.0	9	68	1.7	0.8	7.5	15	96	1.0	0.6	6.5
–Diabetes 250	5	18	0.3	0.2	3.5	8	65	1.7	0.8	8.1	13	83	0.8	0.5	6.3
Circulatory 390-459	93	1203	19.2	13.1	12.9	56	660	17.1	7.8	11.8	149	1862	18.4	10.5	12.5
–Cor.Ht 410-414, 4292	61	753	12.0	8.2	12.3	31	333	8.6	4.1	10.7	92	1085	10.7	6.2	11.8
–C.V./St 430-4, 436-8	15	263	4.2	2.5	17.5	13	222	5.7	2.7	17.1	28	485	4.8	2.6	17.3
–Arteries 440-448	8	90	1.4	1.0	11.3	4	55	1.4	0.5	13.8	12	145	1.4	0.8	12.1
Respiratory 460-519	16	135	2.2	1.4	8.4	12	145	3.7	1.9	12.1	28	280	2.8	1.6	10.0
–Pneu/Infl 480-487	2	35	0.6	0.3	17.5	5	103	2.7	1.4	20.5	7	138	1.4	0.8	19.6
–C.P.D.(+) 491-2, 496	11	78	1.2	0.8	7.0	6	35	0.9	0.4	5.8	17	113	1.1	0.6	6.6
–Asthma 493	0	0	0.0	0.0	0.0	1	8	0.2	0.1	7.5	1	8	0.1	0.0	7.5
Digestive 520-579	12	185	3.0	2.0	15.4	10	90	2.3	1.0	9.0	22	275	2.7	1.5	12.5
–Chr.Liv/Cirr 571	5	93	1.5	1.1	18.5	2	20	0.5	0.2	10.0	7	113	1.1	0.7	16.1
Cong. Anomaly 740-759	0	0	0.0	0.0	0.0	1	75	1.9	0.9	74.5	1	75	0.7	0.5	74.5
Perinatal 760-779	6	447	7.1	5.6	74.5	3	224	5.8	2.8	74.5	9	671	6.6	4.2	74.5
Ext. Causes E800-999	50	1765	28.2	20.5	35.3	27	1127	29.1	14.2	41.7	77	2891	28.5	17.3	37.5
–M.V.Tr.Acc E810-819	26	970	15.5	12.1	37.3	8	410	10.6	6.1	51.2	34	1330	13.6	9.1	40.6
–Poisoning E850-869	1	38	0.6	0.3	37.5	2	40	1.0	0.5	20.0	3	78	0.8	0.4	25.8
–Falls E880-888	5	163	2.6	1.8	32.5	0	0	0.0	0.0	0.0	5	163	1.6	0.9	32.5
–Suicide E950-959	10	340	5.4	3.5	34.0	10	345	8.9	3.2	34.5	20	685	6.8	3.3	34.3
All Other Causes	38	1230	19.6	15.8	32.4	16	356	9.2	4.4	22.3	54	1586	15.7	10.1	29.4
All Causes	320	6267	100.0	72.8	19.6	236	3868	100.0	46.7	16.4	556	10134	100.0	59.7	18.2

H.U. = 09 : BOUNDARY

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	11	368	3.2	2.0	33.4	1	3	0.0	0.0	2.5	12	370	2.1	1.0	30.8
–AIDS/HIV rl. 042-044	6	245	2.1	1.3	40.8	0	0	0.0	0.0	0.0	6	245	1.4	0.6	40.8
Cancer 140-208	200	2310	20.0	12.6	11.5	169	2278	39.6	12.8	13.5	369	4588	26.5	12.7	12.4
–Lung 162	74	815	7.0	4.5	11.0	33	403	7.0	2.3	12.2	107	1218	7.0	3.4	11.4
–Fem. Breast 174	0	0	0.0	0.0	0.0	33	463	8.0	2.7	14.0	33	463	2.7	2.7	14.0
–Colorectal 153-154	19	218	1.9	1.2	11.4	16	175	3.0	0.9	10.9	35	393	2.3	1.1	11.2
–Cervical 180	0	0	0.0	0.0	0.0	3	53	0.9	0.2	17.5	3	53	0.3	0.2	17.5
–Prostate 185	16	110	1.0	0.6	6.9	0	0	0.0	0.0	0.0	16	110	0.6	0.6	6.9
End/Nut/Met. 240-279	7	118	1.0	0.6	16.8	12	140	2.4	0.8	11.7	19	258	1.5	0.7	13.6
–Diabetes 250	5	108	0.9	0.5	21.5	8	50	0.9	0.3	6.3	13	158	0.9	0.4	12.1
Circulatory 390-459	205	2138	18.5	11.7	10.4	100	1007	17.5	5.6	10.1	305	3144	18.1	8.7	10.3
–Cor.Ht 410-414, 4292	133	1483	12.8	8.2	11.1	45	308	5.3	1.6	6.8	178	1790	10.3	5.0	10.1
–C.V./St 430-4, 436-8	32	305	2.6	1.7	9.5	31	377	6.5	2.2	12.2	63	682	3.9	1.9	10.8
–Arteries 440-448	12	110	1.0	0.6	9.2	3	23	0.4	0.1	7.5	15	133	0.8	0.3	8.8
Respiratory 460-519	27	183	1.6	0.9	6.8	17	148	2.6	1.1	8.7	44	330	1.9	1.0	7.5
–Pneu/Infl 480-487	6	50	0.4	0.2	8.3	4	10	0.2	0.1	2.5	10	60	0.3	0.1	6.0
–C.P.D.(+) 491-2, 496	14	70	0.6	0.4	5.0	10	50	0.9	0.3	5.0	24	120	0.7	0.3	5.0
–Asthma 493	1	8	0.1	0.0	7.5	2	85	1.5	0.8	42.5	3	93	0.5	0.4	30.8
Digestive 520-579	30	520	4.5	3.0	17.3	13	158	2.7	0.9	12.1	43	678	3.9	2.0	15.8
–Chr.Liv/Cirr 571	20	305	2.6	1.7	15.3	5	53	0.9	0.3	10.5	25	358	2.1	1.0	14.3
Cong. Anomaly 740-759	10	684	5.9	4.4	68.3	5	370	6.4	2.4	74.0	15	1054	6.1	3.4	70.2
Perinatal 760-779	7	522	4.5	3.4	74.5	8	596	10.4	3.9	74.5	15	1118	6.4	3.7	74.5
Ext. Causes E800-999	87	3597	31.1	22.1	41.3	25	663	11.5	4.3	26.5	112	4259	24.6	13.2	38.0
–M.V.Tr.Acc E810-819	35	1578	13.6	10.1	45.1	9	193	3.3	1.1	21.4	44	1770	10.2	5.5	40.2
–Poisoning E850-869	4	175	1.5	1.0	43.8	3	73	1.3	0.4	24.2	7	248	1.4	0.7	35.4
–Falls E880-888	3	123	1.1	0.6	40.8	3	33	0.6	0.2	10.8	6	155	0.9	0.4	25.8
–Suicide E950-959	20	630	5.4	3.3	31.5	3	73	1.3	0.5	24.2	23	703	4.1	1.9	30.5
All Other Causes	33	1134	9.8	7.2	34.3	28	397	6.9	2.3	14.2	61	1530	8.8	4.7	25.1
All Causes	617	11570	100.0	68.0	18.8	378	5757	100.0	34.1	15.2	995	17327	100.0	51.0	17.4

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
H.U. = 10 : SIMON FRASER															
Inf/Paras. D 001-139	11	358	5.6	3.0	32.5	0	0	0.0	0.0	0.0	11	358	3.5	1.5	32.5
–AIDS/HIV rl. 042-044	11	358	5.6	3.0	32.5	0	0	0.0	0.0	0.0	11	358	3.5	1.5	32.5
Cancer 140-208	95	1278	20.0	12.8	13.4	75	1043	27.6	10.8	13.9	170	2320	22.8	11.8	13.6
–Lung 162	25	298	4.7	3.0	11.9	23	278	7.4	3.0	12.1	48	575	5.7	3.0	12.0
–Fem. Breast 174	0	0	0.0	0.0	0.0	16	250	6.6	2.7	15.6	16	250	2.5	2.7	15.6
–Colorectal 153-154	7	103	1.6	1.1	14.6	8	95	2.5	0.9	11.9	15	198	1.9	1.0	13.2
–Cervical 180	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Prostate 185	9	78	1.2	0.8	8.6	0	0	0.0	0.0	0.0	9	78	0.8	0.8	8.6
End/Nut/Met. 240-279	9	168	2.6	2.0	18.6	10	165	4.4	1.5	16.5	19	333	3.3	1.8	17.5
–Diabetes 250	7	103	1.6	0.9	14.6	8	160	4.2	1.5	20.0	15	263	2.6	1.2	17.5
Circulatory 390-459	111	1398	21.9	14.5	12.6	65	643	17.0	7.1	9.9	176	2040	20.1	10.8	11.6
–Cor.Ht 410-414, 4292	67	693	10.8	7.1	10.3	37	273	7.2	2.9	7.4	104	965	9.5	5.0	9.3
–C.V./St 430-4, 436-8	24	415	6.5	4.0	17.3	13	153	4.0	1.4	11.7	37	568	5.6	2.7	15.3
–Arteries 440-448	9	53	0.8	0.5	5.8	3	23	0.6	0.3	7.5	12	75	0.7	0.4	6.3
Respiratory 460-519	15	162	2.5	1.9	10.8	10	75	2.0	0.8	7.5	25	237	2.3	1.3	9.5
–Pneu/Infl 480-487	5	33	0.5	0.3	6.5	1	8	0.2	0.1	7.5	6	40	0.4	0.2	6.7
–C.P.D.(+) 491-2, 496	9	58	0.9	0.6	6.4	7	38	1.0	0.4	5.4	16	95	0.9	0.5	5.9
–Asthma 493	0	0	0.0	0.0	0.0	2	30	0.8	0.3	15.0	2	30	0.3	0.2	15.0
Digestive 520-579	16	265	4.1	2.6	16.6	11	148	3.9	1.6	13.4	27	413	4.1	2.1	15.3
–Chr.Liv/Cirr 571	6	145	2.3	1.4	24.2	3	48	1.3	0.5	15.8	9	193	1.9	0.9	21.4
Cong. Anomaly 740-759	2	117	1.8	1.2	58.5	3	120	3.2	1.3	39.8	5	237	2.3	1.2	47.3
Perinatal 760-779	4	298	4.7	3.6	74.5	5	373	9.9	4.6	74.5	9	671	6.6	4.1	74.5
Ext. Causes E800-999	46	1822	28.5	19.0	39.6	22	715	18.9	8.6	32.5	68	2537	25.0	13.8	37.3
–M.V.Tr.Acc E810-819	12	580	9.1	6.7	48.3	4	90	2.4	0.9	22.5	16	670	6.6	3.8	41.9
–Poisoning E850-869	7	273	4.3	2.2	38.9	3	118	3.1	1.6	39.2	10	390	3.8	1.9	39.0
–Falls E880-888	2	40	0.6	0.3	20.0	1	48	1.3	0.4	47.5	3	88	0.9	0.4	29.2
–Suicide E950-959	16	570	8.9	6.1	35.6	6	190	5.0	2.5	31.7	22	760	7.5	4.3	34.5
All Other Causes	24	522	8.2	4.7	21.8	24	495	13.1	5.7	20.6	48	1017	10.0	5.2	21.2
All Causes	333	6386	100.0	65.3	19.2	225	3774	100.0	42.0	16.8	558	10160	100.0	53.5	18.2
H.U. = 11 : COAST-GARIBALDI															
Inf/Paras. D 001-139	2	60	2.3	2.7	30.0	1	8	0.6	0.2	7.5	3	68	1.8	1.6	22.5
–AIDS/HIV rl. 042-044	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Cancer 140-208	43	522	19.7	16.1	12.1	29	383	33.0	11.7	13.2	72	905	23.7	13.9	12.6
–Lung 162	8	90	3.4	2.8	11.3	13	143	12.3	4.5	11.0	21	233	6.1	3.6	11.1
–Fem. Breast 174	0	0	0.0	0.0	0.0	7	118	10.1	3.7	16.8	7	118	3.1	3.7	16.8
–Colorectal 153-154	4	50	1.9	1.5	12.5	1	8	0.6	0.2	7.5	5	58	1.5	0.9	11.5
–Cervical 180	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Prostate 185	2	10	0.4	0.2	5.0	0	0	0.0	0.0	0.0	2	10	0.3	0.2	5.0
End/Nut/Met. 240-279	1	8	0.3	0.2	7.5	1	13	1.1	0.4	12.5	2	20	0.5	0.3	10.0
–Diabetes 250	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Circulatory 390-459	38	435	16.4	12.0	11.4	30	285	24.6	9.1	9.5	68	720	18.9	10.6	10.6
–Cor.Ht 410-414, 4292	29	288	10.9	8.0	9.9	11	88	7.5	2.9	8.0	40	375	9.8	5.5	9.4
–C.V./St 430-4, 436-8	4	90	3.4	2.3	22.5	7	88	7.5	2.8	12.5	11	178	4.7	2.5	16.1
–Arteries 440-448	0	0	0.0	0.0	0.0	1	3	0.2	0.1	2.5	1	3	0.1	0.0	2.5
Respiratory 460-519	6	65	2.5	1.6	10.8	6	45	3.9	1.5	7.5	12	110	2.9	1.5	9.2
–Pneu/Infl 480-487	3	53	2.0	1.3	17.5	3	38	3.2	1.4	12.5	6	90	2.4	1.3	15.0
–C.P.D.(+) 491-2, 496	2	10	0.4	0.2	5.0	1	3	0.2	0.1	2.5	3	13	0.3	0.1	4.2
–Asthma 493	1	3	0.1	0.1	2.5	1	3	0.2	0.1	2.5	2	5	0.1	0.1	2.5
Digestive 520-579	3	58	2.2	1.5	19.2	3	38	3.2	1.4	12.5	6	95	2.5	1.5	15.8
–Chr.Liv/Cirr 571	2	45	1.7	1.2	22.5	3	38	3.2	1.4	12.5	5	83	2.2	1.3	16.5
Cong. Anomaly 740-759	2	107	4.0	4.0	53.5	2	147	12.6	6.2	73.3	4	254	6.7	5.1	63.4
Perinatal 760-779	2	149	5.6	6.3	74.5	2	149	12.8	6.4	74.5	4	298	7.8	6.3	74.5
Ext. Causes E800-999	30	1120	42.3	43.5	37.3	2	15	1.3	0.4	7.5	32	1135	29.8	23.1	35.5
–M.V.Tr.Acc E810-819	8	330	12.5	13.3	41.3	0	0	0.0	0.0	0.0	8	330	8.7	7.0	41.3
–Poisoning E850-869	1	43	1.6	1.2	42.5	0	0	0.0	0.0	0.0	1	43	1.1	0.6	42.5
–Falls E880-888	2	40	1.5	1.0	20.0	0	0	0.0	0.0	0.0	2	40	1.0	0.5	20.0
–Suicide E950-959	8	300	11.3	12.3	37.5	0	0	0.0	0.0	0.0	8	300	7.9	6.4	37.5
All Other Causes	4	127	4.8	4.6	31.8	4	80	6.9	2.7	20.0	8	207	5.4	3.6	25.9
All Causes	131	2650	100.0	92.5	20.2	80	1161	100.0	39.9	14.5	211	3810	100.0	67.4	18.1

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
H.U. = 13 : CENTRAL VANCOUVER ISLAND															
Inf/Paras. D 001-139	3	58	0.7	0.5	19.2	3	113	2.4	1.4	37.5	6	170	1.3	1.0	28.3
–AIDS/HIV rl. 042-044	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Cancer 140-208	153	1733	21.7	15.6	11.3	112	1440	30.2	14.4	12.9	265	3172	24.9	15.0	12.0
–Lung 162	57	488	6.1	4.0	8.6	35	418	8.7	3.9	11.9	92	905	7.1	4.0	9.8
–Fem. Breast 174	0	0	0.0	0.0	0.0	31	378	7.9	3.5	12.2	31	378	3.0	3.5	12.2
–Colorectal 153-154	9	148	1.9	1.4	16.4	11	88	1.8	0.6	8.0	20	235	1.8	1.0	11.8
–Cervical 180	0	0	0.0	0.0	0.0	3	78	1.6	0.9	25.8	3	78	0.6	0.9	25.8
–Prostate 185	12	125	1.6	1.2	10.4	0	0	0.0	0.0	0.0	12	125	1.0	1.2	10.4
End/Nut/Met. 240-279	6	50	0.6	0.4	8.3	6	50	1.0	0.4	8.3	12	100	0.8	0.4	8.3
–Diabetes 250	5	43	0.5	0.4	8.5	6	50	1.0	0.4	8.3	11	93	0.7	0.4	8.4
Circulatory 390-459	164	1575	19.8	13.4	9.6	67	613	12.8	5.2	9.1	231	2188	17.2	9.4	9.5
–Cor.Ht 410-414, 4292	110	1130	14.2	9.8	10.3	40	335	7.0	2.7	8.4	150	1465	11.5	6.3	9.8
–C.V./St 430-4, 436-8	20	190	2.4	1.7	9.5	13	163	3.4	1.5	12.5	33	353	2.8	1.6	10.7
–Arteries 440-448	17	113	1.4	0.8	6.6	4	30	0.6	0.3	7.5	21	143	1.1	0.6	6.8
Respiratory 460-519	21	183	2.3	1.6	8.7	17	118	2.5	1.0	6.9	38	300	2.4	1.3	7.9
–Pneu/Infl 480-487	7	88	1.1	0.8	12.5	6	40	0.8	0.4	6.7	13	128	1.0	0.6	9.8
–C.P.D.(+) 491-2, 496	7	43	0.5	0.3	6.1	8	35	0.7	0.2	4.4	15	78	0.6	0.2	5.2
–Asthma 493	0	0	0.0	0.0	0.0	2	40	0.8	0.4	20.0	2	40	0.3	0.2	20.0
Digestive 520-579	12	200	2.5	1.9	16.7	9	108	2.3	1.0	11.9	21	308	2.4	1.5	14.6
–Chr.Liv/Cirr 571	7	123	1.5	1.2	17.5	5	98	2.0	1.0	19.5	12	220	1.7	1.1	18.3
Cong. Anomaly 740-759	4	229	2.9	3.3	57.3	3	224	4.7	3.4	74.5	7	453	3.6	3.4	64.6
Perinatal 760-779	2	149	1.9	2.2	74.5	5	373	7.8	5.6	74.5	7	522	4.1	3.9	74.5
Ext. Causes E800-999	60	2455	30.8	33.2	40.9	20	825	17.3	11.1	41.3	80	3280	25.7	22.3	41.0
–M.V.Tr.Acc E810-819	16	775	9.7	12.0	48.4	6	325	6.8	4.6	54.2	22	1100	8.6	8.4	50.0
–Poisoning E850-869	6	220	2.8	2.3	36.7	1	53	1.1	1.0	52.5	7	273	2.1	1.6	38.9
–Falls E880-888	4	135	1.7	1.9	33.8	2	40	0.8	0.3	20.0	6	175	1.4	1.1	29.2
–Suicide E950-959	16	590	7.4	7.3	36.9	3	128	2.7	1.1	42.5	19	718	5.6	4.3	37.8
All Other Causes	42	1336	16.8	17.0	31.8	40	912	19.1	12.1	22.8	82	2248	17.6	14.5	27.4
All Causes	467	7966	100.0	89.1	17.1	282	4773	100.0	55.6	16.9	749	12739	100.0	72.6	17.0
H.U. = 14 : UPPER ISLAND															
Inf/Paras. D 001-139	1	38	0.9	0.5	37.5	4	85	3.4	2.5	21.3	5	123	1.8	1.4	24.5
–AIDS/HIV rl. 042-044	1	38	0.9	0.5	37.5	1	53	2.1	1.8	52.5	2	90	1.3	1.1	45.0
Cancer 140-208	57	838	20.1	15.1	14.7	54	690	27.5	14.3	12.8	111	1528	22.9	14.7	13.8
–Lung 162	18	290	7.0	5.2	16.1	13	203	8.1	4.0	15.6	31	493	7.4	4.7	15.9
–Fem. Breast 174	0	0	0.0	0.0	0.0	11	178	7.1	3.9	16.1	11	178	2.7	3.9	16.1
–Colorectal 153-154	7	68	1.6	1.3	9.6	6	45	1.8	0.9	7.5	13	113	1.7	1.1	8.7
–Cervical 180	0	0	0.0	0.0	0.0	1	3	0.1	0.1	2.5	1	3	0.0	0.1	2.5
–Prostate 185	4	45	1.1	0.9	11.3	0	0	0.0	0.0	0.0	4	45	0.7	0.9	11.3
End/Nut/Met. 240-279	2	30	0.7	0.6	15.0	5	78	3.1	1.6	15.5	7	108	1.6	1.1	15.4
–Diabetes 250	1	8	0.2	0.1	7.5	4	70	2.8	1.5	17.5	5	78	1.2	0.8	15.5
Circulatory 390-459	52	555	13.3	10.1	10.7	20	230	9.2	4.4	11.5	72	785	11.8	7.4	10.9
–Cor.Ht 410-414, 4292	30	335	8.0	6.2	11.2	12	125	5.0	2.4	10.4	42	460	6.9	4.4	11.0
–C.V./St 430-4, 436-8	9	133	3.2	2.3	14.7	3	38	1.5	0.8	12.5	12	170	2.5	1.6	14.2
–Arteries 440-448	6	40	1.0	0.8	6.7	1	3	0.1	0.1	2.5	7	43	0.6	0.4	6.1
Respiratory 460-519	7	68	1.6	1.3	9.6	5	68	2.7	1.4	13.5	12	135	2.0	1.3	11.3
–Pneu/Infl 480-487	0	0	0.0	0.0	0.0	2	40	1.6	0.9	20.0	2	40	0.6	0.4	20.0
–C.P.D.(+) 491-2, 496	4	20	0.5	0.4	5.0	1	8	0.3	0.1	7.5	5	28	0.4	0.3	5.5
–Asthma 493	1	13	0.3	0.2	12.5	0	0	0.0	0.0	0.0	1	13	0.2	0.1	12.5
Digestive 520-579	4	35	0.8	0.7	8.8	8	155	6.2	3.4	19.4	12	190	2.8	1.9	15.8
–Chr.Liv/Cirr 571	0	0	0.0	0.0	0.0	5	113	4.5	2.5	22.5	5	113	1.7	1.2	22.5
Cong. Anomaly 740-759	0	0	0.0	0.0	0.0	3	219	8.7	5.5	72.8	3	219	3.3	2.8	72.8
Perinatal 760-779	9	671	16.1	17.2	74.5	5	373	14.9	9.7	74.5	14	1043	15.6	13.5	74.5
Ext. Causes E800-999	42	1625	39.0	34.4	38.7	5	225	9.0	4.6	44.9	47	1850	27.7	20.1	39.4
–M.V.Tr.Acc E810-819	7	308	7.4	6.5	43.9	3	113	4.5	2.2	37.5	10	420	6.3	4.3	42.0
–Poisoning E850-869	3	123	2.9	2.9	40.8	0	0	0.0	0.0	0.0	3	123	1.8	1.5	40.8
–Falls E880-888	3	83	2.0	2.0	27.5	0	0	0.0	0.0	0.0	3	83	1.2	1.1	27.5
–Suicide E950-959	11	393	9.4	7.2	35.7	1	38	1.5	0.5	37.5	12	430	6.4	3.9	35.8
All Other Causes	19	308	7.4	6.0	16.2	12	387	15.4	8.3	32.3	31	695	10.4	7.1	22.4
All Causes	193	4166	100.0	85.9	21.6	121	2508	100.0	55.7	20.7	314	6673	100.0	71.3	21.3

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

H.U. = 15 : CARIBOO

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–AIDS/HIV rl. 042-044	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Cancer 140-208	29	520	14.4	17.1	17.9	29	403	24.4	12.4	13.9	58	922	17.5	14.8	15.9
–Lung 162	7	63	1.7	1.9	8.9	7	88	5.3	3.1	12.5	14	150	2.8	2.4	10.7
–Fem. Breast 174	0	0	0.0	0.0	0.0	4	110	6.7	3.1	27.5	4	110	2.1	3.1	27.5
–Colorectal 153-154	0	0	0.0	0.0	0.0	1	33	2.0	0.8	32.5	1	33	0.6	0.4	32.5
–Cervical 180	0	0	0.0	0.0	0.0	2	45	2.7	1.1	22.5	2	45	0.9	1.1	22.5
–Prostate 185	2	15	0.4	0.4	7.5	0	0	0.0	0.0	0.0	2	15	0.3	0.4	7.5
End/Nut/Met. 240-279	4	25	0.7	0.8	6.3	5	113	6.8	3.1	22.5	9	138	2.6	1.9	15.3
–Diabetes 250	4	25	0.7	0.8	6.3	4	75	4.5	2.2	18.8	8	100	1.9	1.5	12.5
Circulatory 390-459	40	590	16.3	17.3	14.8	18	205	12.4	7.5	11.4	58	795	15.1	12.7	13.7
–Cor.Ht 410-414, 4292	19	283	7.8	8.0	14.9	6	50	3.0	1.8	8.3	25	333	6.3	5.2	13.3
–C.V./St 430-4, 436-8	8	100	2.8	3.0	12.5	8	65	3.9	2.3	8.1	16	165	3.1	2.7	10.3
–Arteries 440-448	3	18	0.5	0.6	5.8	0	0	0.0	0.0	0.0	3	18	0.3	0.3	5.8
Respiratory 460-519	6	105	2.9	2.8	17.5	8	209	12.7	7.2	26.1	14	314	6.0	5.0	22.4
–Pneu/Infl 480-487	3	58	1.6	1.4	19.2	3	162	9.8	5.5	53.8	6	219	4.2	3.5	36.5
–C.P.D.(+) 491-2, 496	2	30	0.8	0.8	15.0	4	30	1.8	1.1	7.5	6	60	1.1	1.0	10.0
–Asthma 493	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Digestive 520-579	5	113	3.1	3.1	22.5	5	48	2.9	1.7	9.5	10	160	3.0	2.5	16.0
–Chr.Liv/Cirr 571	3	68	1.9	1.9	22.5	3	43	2.6	1.5	14.2	6	110	2.1	1.7	18.3
Cong. Anomaly 740-759	2	149	4.1	5.0	74.5	2	147	8.9	5.1	73.3	4	296	5.6	5.1	73.9
Perinatal 760-779	2	149	4.1	5.0	74.5	1	75	4.5	2.5	74.5	3	224	4.2	3.8	74.5
Ext. Causes E800-999	44	1685	46.6	53.5	38.3	8	340	20.6	11.8	42.5	52	2025	38.4	32.9	38.9
–M.V.Tr.Acc E810-819	18	785	21.7	25.0	43.6	3	93	5.6	3.0	30.8	21	878	16.7	14.1	41.8
–Poisoning E850-869	2	60	1.7	1.5	30.0	0	0	0.0	0.0	0.0	2	60	1.1	0.8	30.0
–Falls E880-888	4	70	1.9	2.4	17.5	0	0	0.0	0.0	0.0	4	70	1.3	1.2	17.5
–Suicide E950-959	6	245	6.8	8.2	40.8	2	105	6.4	3.9	52.5	8	350	6.6	6.1	43.8
All Other Causes	13	283	7.8	8.7	21.7	5	115	6.9	3.9	22.9	18	397	7.5	6.4	22.1
All Causes	145	3618	100.0	113.4	24.9	81	1652	100.0	55.2	20.4	226	5270	100.0	85.0	23.3

H.U. = 16 : SKEENA

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	3	88	1.8	2.1	29.2	0	0	0.0	0.0	0.0	3	88	1.2	1.1	29.2
–AIDS/HIV rl. 042-044	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Cancer 140-208	45	643	13.1	16.2	14.3	26	435	17.7	12.6	16.7	71	1078	14.6	14.7	15.2
–Lung 162	16	185	3.8	4.9	11.6	6	65	2.6	2.3	10.8	22	250	3.4	3.7	11.4
–Fem. Breast 174	0	0	0.0	0.0	0.0	7	143	5.8	3.7	20.4	7	143	1.9	3.7	20.4
–Colorectal 153-154	3	53	1.1	1.3	17.5	2	25	1.0	0.9	12.5	5	78	1.1	1.1	15.5
–Cervical 180	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Prostate 185	5	73	1.5	1.9	14.5	0	0	0.0	0.0	0.0	5	73	1.0	1.9	14.5
End/Nut/Met. 240-279	2	30	0.6	0.7	15.0	5	148	6.0	4.3	29.5	7	178	2.4	2.4	25.4
–Diabetes 250	2	30	0.6	0.7	15.0	4	80	3.2	2.2	20.0	6	110	1.5	1.3	18.3
Circulatory 390-459	39	533	10.9	13.3	13.7	20	250	10.2	7.5	12.5	59	783	10.6	10.7	13.3
–Cor.Ht 410-414, 4292	27	333	6.8	8.7	12.3	10	80	3.2	2.9	8.0	37	413	5.6	6.0	11.1
–C.V./St 430-4, 436-8	5	118	2.4	2.4	23.5	3	48	1.9	0.9	15.8	8	165	2.2	1.8	20.6
–Arteries 440-448	2	15	0.3	0.4	7.5	0	0	0.0	0.0	0.0	2	15	0.2	0.2	7.5
Respiratory 460-519	6	25	0.5	1.0	4.2	3	28	1.1	1.0	9.2	9	53	0.7	0.9	5.8
–Pneu/Infl 480-487	5	23	0.5	0.9	4.5	1	3	0.1	0.1	2.5	6	25	0.3	0.5	4.2
–C.P.D.(+) 491-2, 496	1	3	0.1	0.1	2.5	2	25	1.0	0.9	12.5	3	28	0.4	0.4	9.2
–Asthma 493	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Digestive 520-579	10	115	2.3	3.0	11.5	2	60	2.4	1.4	30.0	12	175	2.4	2.2	14.6
–Chr.Liv/Cirr 571	4	80	1.6	1.7	20.0	1	33	1.3	0.6	32.5	5	113	1.5	1.2	22.5
Cong. Anomaly 740-759	4	296	6.0	7.1	73.9	2	135	5.5	4.0	67.3	6	430	5.8	5.5	71.7
Perinatal 760-779	7	522	10.6	12.3	74.5	5	373	15.1	8.8	74.5	12	894	12.1	10.5	74.5
Ext. Causes E800-999	53	2347	47.9	59.8	44.3	10	482	19.6	12.8	48.1	63	2829	38.4	37.3	44.9
–M.V.Tr.Acc E810-819	29	1367	27.9	35.1	47.1	2	95	3.9	2.2	47.5	31	1462	19.9	19.2	47.2
–Poisoning E850-869	2	70	1.4	1.2	35.0	0	0	0.0	0.0	0.0	2	70	1.0	0.6	35.0
–Falls E880-888	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Suicide E950-959	7	248	5.0	6.2	35.4	0	0	0.0	0.0	0.0	7	248	3.4	3.3	35.4
All Other Causes	11	307	6.3	7.5	27.9	13	554	22.5	13.5	42.6	24	860	11.7	10.4	35.8
All Causes	180	4903	100.0	123.0	27.2	86	2462	100.0	65.8	28.6	266	7365	100.0	95.8	27.7

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

H.U. = 17 : PEACE RIVER

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	0	0	0.0	0.0	0.0	2	15	0.9	0.8	7.5	2	15	0.3	0.4	7.5
–AIDS/HIV rl. 042-044	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Cancer 140-208	17	283	9.6	11.2	16.6	27	423	24.1	18.3	15.6	44	705	15.0	14.3	16.0
–Lung 162	9	113	3.8	4.7	12.5	12	180	10.3	7.8	15.0	21	293	6.2	6.0	13.9
–Fem. Breast 174	0	0	0.0	0.0	0.0	4	80	4.6	3.0	20.0	4	80	1.7	3.0	20.0
–Colorectal 153-154	2	20	0.7	0.8	10.0	4	30	1.7	1.5	7.5	6	50	1.1	1.1	8.3
–Cervical 180	0	0	0.0	0.0	0.0	1	28	1.6	1.2	27.5	1	28	0.6	1.2	27.5
–Prostate 185	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
End/Nut/Met. 240-279	2	35	1.2	1.3	17.5	0	0	0.0	0.0	0.0	2	35	0.7	0.7	17.5
–Diabetes 250	2	35	1.2	1.3	17.5	0	0	0.0	0.0	0.0	2	35	0.7	0.7	17.5
Circulatory 390-459	27	318	10.8	13.3	11.8	6	40	2.3	2.1	6.7	33	358	7.6	8.1	10.8
–Cor.Ht 410-414, 4292	18	200	6.8	8.3	11.1	4	35	2.0	1.8	8.8	22	235	5.0	5.3	10.7
–C.V./St 430-4, 436-8	4	70	2.4	3.0	17.5	1	3	0.1	0.1	2.5	5	73	1.5	1.7	14.5
–Arteries 440-448	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Respiratory 460-519	6	140	4.7	5.2	23.3	2	10	0.6	0.5	5.0	8	150	3.2	2.8	18.7
–Pneu/Infl 480-487	2	80	2.7	3.0	39.8	0	0	0.0	0.0	0.0	2	80	1.7	1.5	39.8
–C.P.D.(+) 491-2, 496	3	13	0.4	0.7	4.2	2	10	0.6	0.5	5.0	5	23	0.5	0.6	4.5
–Asthma 493	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Digestive 520-579	4	60	2.0	2.5	15.0	1	23	1.3	1.0	22.5	5	83	1.8	1.8	16.5
–Chr.Liv/Cirr 571	2	15	0.5	0.8	7.5	1	23	1.3	1.0	22.5	3	38	0.8	0.9	12.5
Cong. Anomaly 740-759	0	0	0.0	0.0	0.0	1	75	4.3	2.7	74.5	1	75	1.6	1.3	74.5
Perinatal 760-779	1	75	2.5	2.7	74.5	3	224	12.8	8.1	74.5	4	298	6.3	5.4	74.5
Ext. Causes E800-999	34	1345	45.6	49.6	39.6	11	468	26.7	18.9	42.5	45	1813	38.6	35.1	40.3
–M.V.Tr.Acc E810-819	8	345	11.7	13.1	43.1	8	315	18.0	13.2	39.4	16	660	14.0	13.4	41.3
–Poisoning E850-869	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Falls E880-888	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Suicide E950-959	5	188	6.4	6.4	37.5	1	43	2.4	1.0	42.5	6	230	4.9	3.9	38.3
All Other Causes 21	694	23.5	25.6	33.0	11	476	27.2	19.3	43.2	32	1169	24.9	22.8	36.5	
All Causes	112	2948	100.0	111.3	26.3	64	1751	100.0	71.7	27.4	176	4699	100.0	92.8	26.7

H.U. = 18 : NORTHERN INTERIOR

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	4	65	1.0	1.0	16.3	1	8	0.3	0.2	7.5	5	73	0.8	0.6	14.5
–AIDS/HIV rl. 042-044	1	38	0.6	0.4	37.5	0	0	0.0	0.0	0.0	1	38	0.4	0.2	37.5
Cancer 140-208	61	798	12.3	14.7	13.1	41	683	28.1	13.7	16.6	102	1480	16.6	14.2	14.5
–Lung 162	17	278	4.3	4.7	16.3	11	138	5.7	2.9	12.5	28	415	4.7	3.9	14.8
–Fem. Breast 174	0	0	0.0	0.0	0.0	9	208	8.5	3.6	23.1	9	208	2.3	3.6	23.1
–Colorectal 153-154	4	60	0.9	1.1	15.0	4	55	2.3	1.3	13.8	8	115	1.3	1.2	14.4
–Cervical 180	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Prostate 185	7	43	0.7	1.2	6.1	0	0	0.0	0.0	0.0	7	43	0.5	1.2	6.1
End/Nut/Met. 240-279	5	73	1.1	1.3	14.5	4	30	1.2	0.8	7.5	9	103	1.1	1.0	11.4
–Diabetes 250	4	35	0.5	0.8	8.8	2	15	0.6	0.4	7.5	6	50	0.6	0.6	8.3
Circulatory 390-459	66	1070	16.5	18.8	16.2	20	275	11.3	5.9	13.8	86	1345	15.1	13.0	15.6
–Cor.Ht 410-414, 4292	51	893	13.8	15.5	17.5	13	163	6.7	3.2	12.5	64	1055	11.8	10.0	16.5
–C.V./St 430-4, 436-8	7	78	1.2	1.5	11.1	1	3	0.1	0.1	2.5	8	80	0.9	0.8	10.0
–Arteries 440-448	4	45	0.7	0.8	11.3	1	23	0.9	0.5	22.5	5	68	0.8	0.6	13.5
Respiratory 460-519	11	103	1.6	2.0	9.3	6	45	1.9	1.0	7.5	17	148	1.7	1.6	8.7
–Pneu/Infl 480-487	4	50	0.8	0.8	12.5	3	33	1.3	0.7	10.8	7	83	0.9	0.7	11.8
–C.P.D.(+) 491-2, 496	7	53	0.8	1.2	7.5	3	13	0.5	0.3	4.2	10	65	0.7	0.8	6.5
–Asthma 493	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
Digestive 520-579	15	273	4.2	5.0	18.2	4	35	1.4	0.9	8.8	19	308	3.4	3.0	16.2
–Chr.Liv/Cirr 571	6	115	1.8	1.8	19.2	1	8	0.3	0.2	7.5	7	123	1.4	1.1	17.5
Cong. Anomaly 740-759	6	423	6.5	8.1	70.4	1	75	3.1	1.4	74.5	7	497	5.6	4.7	71.0
Perinatal 760-779	7	522	8.0	9.7	74.5	6	447	18.4	8.4	74.5	13	969	10.9	9.1	74.5
Ext. Causes E800-999	65	2671	41.2	45.4	41.1	18	550	22.6	10.4	30.6	83	3221	36.1	28.3	38.8
–M.V.Tr.Acc E810-819	28	1190	18.3	20.1	42.5	8	255	10.5	5.3	31.9	36	1445	16.2	12.8	40.1
–Poisoning E850-869	2	90	1.4	1.3	45.0	1	8	0.3	0.2	7.5	3	98	1.1	0.7	32.5
–Falls E880-888	1	68	1.0	1.5	67.5	2	45	1.9	0.6	22.5	3	113	1.3	1.1	37.5
–Suicide E950-959	13	508	7.8	8.3	39.0	1	38	1.5	0.5	37.5	14	545	6.1	4.5	38.9
All Other Causes	13	493	7.6	9.1	37.9	10	282	11.6	5.5	28.2	23	775	8.7	7.2	33.7
All Causes	253	6488	100.0	115.0	25.6	111	2429	100.0	48.1	21.9	364	8916	100.0	82.7	24.5

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

H.U. = 20 : CAPITAL REGIONAL DISTRICT

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	14	385	3.4	2.5	27.5	2	65	1.0	0.4	32.5	16	450	2.5	1.4	28.1
–AIDS/HIV rl. 042-044	9	303	2.6	2.0	33.6	0	0	0.0	0.0	0.0	9	303	1.7	0.9	33.6
Cancer 140-208	232	2705	23.6	16.1	11.7	189	2253	36.1	13.2	11.9	421	4957	28.0	14.5	11.8
–Lung 162	69	628	5.5	3.4	9.1	51	553	8.9	2.8	10.8	120	1180	6.7	3.1	9.8
–Fem. Breast 174	0	0	0.0	0.0	0.0	46	725	11.6	4.4	15.8	46	725	4.1	4.4	15.8
–Colorectal 153-154	19	208	1.8	1.1	10.9	10	95	1.5	0.5	9.5	29	303	1.7	0.8	10.4
–Cervical 180	0	0	0.0	0.0	0.0	2	60	1.0	0.4	30.0	2	60	0.3	0.4	30.0
–Prostate 185	24	150	1.3	0.7	6.3	0	0	0.0	0.0	0.0	24	150	0.8	0.7	6.3
End/Nut/Met. 240-279	18	345	3.0	2.3	19.2	11	128	2.0	0.7	11.6	29	473	2.7	1.5	16.3
–Diabetes 250	12	190	1.7	1.2	15.8	6	50	0.8	0.2	8.3	18	240	1.4	0.7	13.3
Circulatory 390-459	164	1580	13.8	9.0	9.6	106	1120	17.9	5.9	10.6	270	2700	15.3	7.4	10.0
–Cor.Ht 410-414, 4292	111	1043	9.1	5.9	9.4	51	373	6.0	1.8	7.3	162	1415	8.0	3.7	8.7
–C.V./St 430-4, 436-8	14	135	1.2	0.7	9.6	33	428	6.8	2.4	13.0	47	563	3.2	1.6	12.0
–Arteries 440-448	11	113	1.0	0.7	10.2	1	13	0.2	0.1	12.5	12	125	0.7	0.4	10.4
Respiratory 460-519	34	380	3.3	2.6	11.2	24	330	5.3	2.4	13.8	58	710	4.0	2.5	12.2
–Pneu/Infl 480-487	9	133	1.2	0.9	14.7	5	138	2.2	1.0	27.5	14	270	1.5	0.9	19.3
–C.P.D.(+) 491-2, 496	20	140	1.2	0.7	7.0	11	83	1.3	0.4	7.5	31	223	1 3	0.5	7.2
–Asthma 493	1	23	0.2	0.2	22.5	0	0	0.0	0.0	0.0	1	23	0.1	0.1	22.5
Digestive 520-579	23	438	3.8	3.1	19.0	16	250	4.0	1.3	15.6	39	688	3.9	2.2	17.6
–Chr.Liv/Cirr 571	13	243	2.1	1.6	18.7	7	133	2.1	0.7	18.9	20	375	2.1	1.1	18.8
Cong. Anomaly 740-759	14	903	7.9	9.2	64.5	4	172	2.8	1.5	43.0	18	1075	6.1	5.5	59.7
Perinatal 760-779	5	373	3.3	3.8	74.5	3	224	3.6	2.4	74.5	8	596	3.4	3.1	74.5
Ext. Causes E800-999	81	2845	24.9	23.1	35.1	19	677	10.8	6.3	35.6	100	3522	19.9	14.4	35.2
–M.V.Tr.Acc E810-819	25	1113	9.7	10.1	44.5	4	185	3.0	2.0	46.3	29	1298	7.3	6.0	44.7
–Poisoning E850-869	9	343	3.0	2.3	38.1	2	60	1.0	0.4	30.0	11	403	2.3	1.3	36.6
–Falls E880-888	8	170	1.5	1.5	21.3	2	10	0.2	0.0	5.0	10	180	1.0	0.8	18.0
–Suicide E950-959	17	523	4.6	3.7	30.7	4	170	2.7	1.6	42.5	21	693	3.9	2.6	33.0
All Other Causes	62	1487	13.0	11.3	24.0	45	1024	16.4	7.8	22.7	107	2511	14.2	9.5	23.5
All Causes	647	11439	100.0	83.0	17.7	419	6241	100.0	41.9	14.9	1066	17680	100.0	61.9	16.6

H.U. = 30 : VANCOUVER

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
Inf/Paras. D 001-139	127	4138	17.5	14.6	32.6	11	240	2.2	1.0	21.8	138	4377	12.7	7.7	31.7
–AIDS/HIV rl. 042-044	114	3900	16.5	13.8	34.2	1	23	0.2	0.1	22.5	115	3923	11.4	6.8	34.1
Cancer 140-208	307	3834	16.2	14.9	12.5	261	3060	28.6	11.5	11.7	568	6893	20.0	13.2	12.1
–Lung 162	103	1013	4.3	3.6	9.8	61	613	5.7	2.3	10.0	164	1625	4.7	2.9	9.9
–Fem. Breast 174	0	0	0.0	0.0	0.0	49	668	6.2	2.5	13.6	49	668	1.9	2.5	13.6
–Colorectal 153-154	27	323	1.4	1.2	11.9	28	345	3.2	1.3	12.3	55	668	1.9	1.3	12.1
–Cervical 180	0	0	0.0	0.0	0.0	7	88	0.8	0.3	12.5	7	88	0.3	0.3	12.5
–Prostate 185	22	125	0.5	0.4	5.7	0	0	0.0	0.0	0.0	22	125	0.4	0.4	5.7
End/Nut/Met. 240-279	15	248	1.0	1.4	16.5	17	253	2.4	1.3	14.9	32	500	1.5	1.4	15.6
–Diabetes 250	9	118	0.5	0.5	13.1	14	210	2.0	1.2	15.0	23	328	1.0	0.8	14.2
Circulatory 390-459	309	3460	14.6	12.9	11.2	167	1343	12.5	4.5	8.0	476	4802	14.0	8.7	10.1
–Cor.Ht 410-414, 4292	201	2138	9.0	7.9	10.6	92	650	6.1	2.2	7.1	293	2788	8.1	5.1	9.5
–C.V./St 430-4, 436-8	33	328	1.4	1.2	9.9	38	380	3.5	1.3	10.0	71	708	2.1	1.2	10.0
–Arteries 440-448	19	240	1.0	1.0	12.6	9	98	0.9	0.3	10.8	28	337	1.0	0.6	12.0
Respiratory 460-519	80	912	3.9	3.9	11.4	33	268	2.5	0.9	8.1	113	1180	3.4	2.4	10.4
–Pneu/Infl 480-487	23	295	1.2	1.3	12.8	13	68	0.6	0.2	5.2	36	362	1.1	0.7	10.1
–C.P.D.(+) 491-2, 496	43	373	1.6	1.3	8.7	11	118	1.1	0.4	10.7	54	490	1.4	0.9	9.1
–Asthma 493	7	173	0.7	1.1	24.6	2	40	0.4	0.2	20.0	9	213	0.6	0.6	23.6
Digestive 520-579	58	1060	4.5	4.1	18.3	32	495	4.6	1.8	15.5	90	1555	4.5	3.0	17.3
–Chr.Liv/Cirr 571	32	550	2.3	2.2	17.2	14	255	2.4	0.9	18.2	46	805	2.3	1.5	17.5
Cong. Anomaly 740-759	10	686	2.9	4.2	68.5	11	739	6.9	4.6	67.1	21	1424	4.1	4.4	67.8
Perinatal 760-779	12	822	3.5	4.7	68.5	15	1118	10.4	6.4	74.5	27	1940	5.6	5.5	71.8
Ext. Causes E800-999	188	6379	27.0	27.4	33.9	70	2135	19.9	8.7	30.5	258	8514	24.8	18.0	33.0
–M.V.Tr.Acc E810-819	33	1317	5.6	6.7	39.9	18	510	4.8	2.5	28.3	51	1827	5.3	4.6	35.8
–Poisoning E850-869	50	1470	6.2	5.0	29.4	15	618	5.8	2.2	41.2	65	2088	6.1	3.6	32.1
–Falls E880-888	18	440	1.9	1.7	24.4	4	30	0.3	0.1	7.5	22	470	1.4	0.9	21.4
–Suicide E950-959	45	1523	6.4	5.6	33.8	18	545	5.1	2.2	30.3	63	2068	6.0	3.9	32.8
All Other Causes	89	2130	9.0	9.7	23.9	48	1068	10.0	4.7	22.3	137	3198	9.3	7.2	23.3
All Causes	1195	23666	100.0	97.7	19.8	665	10715	100.0	45.5	16.1	1860	34381	100.0	71.4	18.5

APPENDIX 3 – *continued*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
H.U. = 31 : BURNABY															
Inf/Paras. D 001-139	4	170	3.3	1.5	42.5	1	72	2.3	1.4	72.0	5	242	2.9	1.5	48.4
–AIDS/HIV rl. 042-044	3	128	2.5	1.2	42.5	0	0	0.0	0.0	0.0	3	128	1.5	0.6	42.5
Cancer 140-208	92	1035	20.1	10.8	11.3	97	1337	43.3	14.8	13.8	189	2372	28.8	12.8	12.6
–Lung 162	27	263	5.1	2.7	9.7	21	228	7.4	2.4	10.8	48	490	6.0	2.5	10.2
–Fem. Breast 174	0	0	0.0	0.0	0.0	20	255	8.2	2.7	12.8	20	255	3.1	2.7	12.8
–Colorectal 153-154	10	130	2.5	1.4	13.0	12	190	6.1	2.1	15.8	22	320	3.9	1.7	14.5
–Cervical 180	0	0	0.0	0.0	0.0	3	48	1.5	0.6	15.8	3	48	0.6	0.6	15.8
–Prostate 185	4	30	0.6	0.3	7.5	0	0	0.0	0.0	0.0	4	30	0.4	0.3	7.5
End/Nut/Met. 240-279	6	80	1.6	0.9	13.3	6	40	1.3	0.3	6.7	12	120	1.5	0.6	10.0
–Diabetes 250	4	40	0.8	0.5	10.0	5	38	1.2	0.3	7.5	9	78	0.9	0.4	8.6
Circulatory 390-459	103	1023	19 9	10.2	9.9	47	333	10.8	3.1	7.1	150	1355	16.5	6.6	9.0
–Cor.Ht 410-414, 4292	67	633	12.3	6.3	9.4	23	178	5.7	1.7	7.7	90	810	9.8	4.0	9.0
–C.V./St 430-4, 436-8	20	215	4.2	2.1	10.8	11	68	2.2	0.6	6.1	31	283	3.4	1.3	9.1
–Arteries 440-448	5	68	1.3	0.8	13.5	2	10	0.3	0.1	5.0	7	78	0.9	0.4	11.1
Respiratory 460-519	18	155	3.0	1.4	8.6	13	133	4.3	1.4	10.2	31	288	3.5	1.4	9.3
–Pneu/Infl 480-487	3	18	0.3	0.2	5.8	2	20	0.6	0.2	10.0	5	38	0.5	0.2	7.5
–C.P.D.(+) 491-2, 496	12	80	1.6	0.7	6.7	8	75	2.4	0.8	9.4	20	155	1.9	0.7	7.8
–Asthma 493	2	45	0.9	0.4	22.5	2	15	0.5	0.1	7.5	4	60	0.7	0.3	15.0
Digestive 520-579	16	235	4.6	2.4	14.7	6	50	1.6	0.5	8.3	22	285	3.5	1.4	13.0
–Chr.Liv/Cirr 571	8	150	2.9	1.5	18.8	2	15	0.5	0.1	7.5	10	165	2.0	0.8	16.5
Cong. Anomaly 740-759	3	224	4.3	3.6	74.5	3	98	3.2	2.3	32.5	6	321	3.9	3.0	53.5
Perinatal 760-779	1	75	1.4	1.2	74.5	4	298	9.6	4.9	74.5	5	373	4.5	3.1	74.5
Ext. Causes E800-999	50	1780	34.6	24.9	35.6	15	353	11.4	3.6	23.5	65	2133	25.9	13.9	32.8
–M.V.Tr.Acc E810-819	18	740	14.4	12.1	41.1	3	58	1.9	0.5	19.2	21	798	9.7	6.2	38.0
–Poisoning E850-869	8	265	5.2	2.8	33.1	2	20	0.6	0.2	10.0	10	285	3.5	1.5	28.5
–Falls E880-888	6	175	3.4	2.5	29.2	0	0	0.0	0.0	0.0	6	175	2.1	1.2	29.2
–Suicide E950-959	13	418	8.1	5.6	32.1	4	120	3.9	1.1	30.0	17	538	6.5	3.3	31.6
All Other Causes	17	365	7.1	4.2	21.4	16	379	12.3	5.1	23.7	33	744	9.0	4.7	22.5
All Causes	310	5140	100.0	61.1	16.6	208	3091	100.0	37.4	14.9	518	8231	100.0	49.0	15.9
H.U. = 32 : RICHMOND															
Inf/Paras. D 001-139	8	275	7.4	3.5	34.4	1	63	2.9	1.8	62.5	9	338	5.7	2.6	37.5
–AIDS/HIV rl. 042-044	6	235	6.3	3.0	39.2	0	0	0.0	0.0	0.0	6	235	4.0	1.4	39.2
Cancer 140-208	65	858	23.1	13.4	13.2	68	1045	47.8	15.1	15.4	133	1903	32.3	14.3	14.3
–Lung 162	24	270	7.3	3.9	11.3	13	168	7.7	2.4	12.9	37	438	7.4	3.2	11.8
–Fem. Breast 174	0	0	0.0	0.0	0.0	11	183	8.4	2.7	16.6	11	183	3.1	2.7	16.6
–Colorectal 153-154	5	43	1.1	0.6	8.5	10	160	7.3	2.1	16.0	15	203	3.4	1.4	13.5
–Cervical 180	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
–Prostate 185	6	40	1.1	0.6	6.7	0	0	0.0	0.0	0.0	6	40	0.7	0.6	6.7
End/Nut/Met. 240-279	6	85	2.3	1.2	14.2	4	55	2.5	0.8	13.8	10	140	2.4	1.0	14.0
–Diabetes 250	2	35	0.9	0.5	17.5	3	43	1.9	0.6	14.2	5	78	1.3	0.6	15.5
Circulatory 390-459	64	615	16.6	8.8	9.6	24	372	17.0	5.9	15.5	88	987	16.7	7.3	11.2
–Cor.Ht 410-414, 4292	39	363	9.8	5.3	9.3	13	133	6.1	2.3	10.2	52	495	8.4	3.8	9.5
–C.V./St 430-4, 436-8	6	40	1.1	0.6	6.7	6	100	4.6	1.3	16.7	12	140	2.4	1.0	11.7
–Arteries 440-448	7	88	2.4	1.2	12.5	0	0	0.0	0.0	0.0	7	88	1.5	0.6	12.5
Respiratory 460-519	5	28	0.7	0.4	5.5	16	165	7.6	2.2	10.3	21	193	3.3	1.3	9.2
–Pneu/Infl 480-487	3	23	0.6	0.3	7.5	2	10	0.5	0.1	5.0	5	33	0.6	0.2	6.5
–C.P.D.(+) 491-2, 496	2	5	0.1	0.1	2.5	7	53	2.4	0.8	7.5	9	58	1.0	0.4	6.4
–Asthma 493	0	0	0.0	0.0	0.0	2	40	1.8	0.4	20.0	2	40	0.7	0.2	20.0
Digestive 520-579	9	103	2.8	1.5	11.4	6	85	3.9	1.1	14.2	15	188	3.2	1.3	12.5
–Chr.Liv/Cirr 571	6	75	2.0	1.1	12.5	3	33	1.5	0.5	10.8	9	108	1.8	0.8	11.9
Cong. Anomaly 740-759	1	72	1.9	1.6	72.0	1	75	3.4	1.5	74.5	2	147	2.5	1.5	73.3
Perinatal 760-779	4	298	8.0	5.7	74.5	0	0	0.0	0.0	0.0	4	298	5.1	2.9	74.5
Ext. Causes E800-999	31	1170	31.5	19.0	37.7	13	308	14.1	4.7	23.7	44	1477	25.1	11.8	33.6
–M.V.Tr.Acc E810-819	7	313	8.4	6.0	44.6	3	93	4.2	2.0	30.8	10	405	6.9	4.0	40.5
–Poisoning E850-869	3	118	3.2	1.5	39.2	1	13	0.6	0.2	12.5	4	130	2.2	0.8	32.5
–Falls E880-888	1	3	0.1	0.0	2.5	0	0	0.0	0.0	0.0	1	3	0.0	0.0	2.5
–Suicide E950-959	7	298	8.0	4.9	42.5	6	140	6.4	1.8	23.3	13	438	7.4	3.3	33.7
All Other Causes	12	210	5.7	3.3	17.5	5	18	0.8	0.3	3.5	17	228	3.9	1.8	13.4
All Causes	205	3712	100.0	58.4	18.1	138	2184	100.0	33.3	15.8	343	5896	100.0	45.9	17.2

APPENDIX 3 – *concluded*

POTENTIAL YEARS OF LIFE LOST BY HEALTH UNIT (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1990

	Male					Female					Total				
Cause of Death	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL	No. of Deaths	Total PYLL	% PYLL	STD Rate	Avg. PYLL
H.U. = 33 : NORTH SHORE															
Inf/Paras. D 001-139	13	388	8.7	3.9	29.8	3	43	1.2	0.4	14.2	16	430	5.4	2.1	26.9
–AIDS/HIV rl. 042-044	11	338	7.6	3.5	30.7	1	28	0.8	0.3	27.5	12	365	4.6	1.8	30.4
Cancer 140-208	71	878	19.8	8.5	12.4	110	1670	46.6	16.7	15.2	181	2548	31.8	12.7	14.1
–Lung 162	17	183	4.1	1.7	10.7	25	333	9.3	3.2	13.3	42	515	6.4	2.5	12.3
–Fem. Breast 174	0	0	0.0	0.0	0.0	26	475	13.3	4.5	18.3	26	475	5.9	4.5	18.3
–Colorectal 153-154	5	78	1.7	0.8	15.5	9	118	3.3	1.1	13.1	14	195	2.4	0.9	13.9
–Cervical 180	0	0	0.0	0.0	0.0	1	8	0.2	0.1	7.5	1	8	0.1	0.1	7.5
–Prostate 185	8	65	1.5	0.6	8.1	0	0	0.0	0.0	0.0	8	65	0.8	0.6	8.1
End/Nut/Met. 240-279	5	93	2.1	0.9	18.5	5	68	1.9	0.6	13.5	10	160	2.0	0.8	16.0
–Diabetes 250	4	90	2.0	0.9	22.5	4	35	1.0	0.3	8.8	8	125	1.6	0.6	15.6
Circulatory 390-459	87	1023	23.1	10.0	11.8	46	435	12.1	4.7	9.4	133	1457	18.2	7.2	11.0
–Cor.Ht 410-414, 4292	52	625	14.1	6.1	12.0	22	125	3.5	1.1	5.7	74	750	9.4	3.6	10.1
–C.V./St 430-4, 436-8	14	205	4.6	1.9	14.6	8	75	2.1	0.7	9.4	22	280	3.5	1.3	12.7
–Arteries 440-448	9	38	0.8	0.3	4.2	4	65	1.8	0.7	16.3	13	103	1.3	0.5	7.9
Respiratory 460-519	15	158	3.6	2.4	10.5	12	175	4.9	1.9	14.6	27	333	4.1	2.2	12.3
–Pneu/Infl 480-487	4	15	0.3	0.1	3.8	5	123	3.4	1.5	24.5	9	138	1.7	0.8	15.3
–C.P.D.(+) 491-2, 496	7	38	0.8	0.3	5.4	5	43	1.2	0.4	8.5	12	80	1.0	0.3	6.7
–Asthma 493	2	15	0.3	0.1	7.5	0	0	0.0	0.0	0.0	2	15	0.2	0.1	7.5
Digestive 520-579	8	175	3.9	1.8	21.9	7	83	2.3	0.8	11.8	15	258	3.2	1.3	17.2
–Chr.Liv/Cirr 571	6	155	3.5	1.6	25.8	4	60	1.7	0.6	15.0	10	215	2.7	1.1	21.5
Cong. Anomaly 740-759	4	298	6.7	5.0	74.5	3	179	5.0	2.9	59.7	7	477	6.0	3.9	68.1
Perinatal 760-779	3	224	5.0	3.7	74.5	2	149	4.2	2.5	74.5	5	373	4.6	3.1	74.5
Ext. Causes E800-999	30	915	20.6	11.1	30.5	15	453	12.6	6.1	30.2	45	1368	17.1	8.5	30.4
–M.V.Tr.Acc E810-819	6	240	5.4	3.5	40.0	4	220	6.1	4.1	55.0	10	460	5.7	3.8	46.0
–Poisoning E850-869	4	165	3.7	1.8	41.3	2	80	2.2	0.7	40.0	6	245	3.1	1.3	40.8
–Falls E880-888	6	70	1.6	0.7	11.7	3	23	0.6	0.2	7.5	9	93	1.2	0.4	10.3
–Suicide E950-959	9	228	5.1	2.4	25.3	4	90	2.5	0.8	22.5	13	318	4.0	1.6	24.4
All Other Causes	13	283	6.4	3.7	21.7	21	329	9.2	4.3	15.7	34	612	7.6	4.0	18.0
All Causes	249	4432	100.0	51.0	17.8	224	3582	100.0	41.1	16.0	473	8013	100.0	45.8	16.9
H.U. = 99 : PROVINCIAL TOTAL															
Inf/Paras. D 001-139	226	7002	5.4	3.8	31.0	39	861	1.2	0.6	22.1	265	7863	3.9	2.2	29.7
–AIDS/HIV rl. 042-044	172	5915	4.5	3.1	34.4	4	125	0.2	0.1	31.3	176	6040	3.0	1.6	34.3
Cancer 140-208	2007	24370	18.7	13.5	12.1	1782	23291	33.3	13.3	13.1	3789	47661	23.8	13.4	12.6
–Lung 162	665	6968	5.3	3.7	10.5	462	5220	7.5	2.9	11.3	1127	12188	6.1	3.3	10.8
–Fem. Breast 174	0	0	0.0	0.0	0.0	387	5978	8.6	3.4	15.4	387	5978	3.0	3.4	15.4
–Colorectal 153-154	174	2125	1.6	1.2	12.2	156	1705	2.4	0.9	10.9	330	3830	1.9	1.1	11.6
–Cervical 180	0	0	0.0	0.0	0.0	31	558	0.8	0.3	18.0	31	558	0.3	0.3	18.0
–Prostate 185	159	1178	0.9	0.6	7.4	0	0	0.0	0.0	0.0	159	1178	0.6	0.6	7.4
End/Nut/Met. 240-279	118	1700	1.3	1.0	14.4	124	1630	2.3	1.0	13.1	242	3330	1.7	1.0	13.8
–Diabetes 250	85	1093	0.8	0.6	12.9	92	1100	1.6	0.6	12.0	177	2193	1.1	0.6	12.4
Circulatory 390-459	2056	22467	17.2	12.1	10.9	982	9623	13.8	5.3	9.8	3038	32090	16.0	8.7	10.6
–Cor.Ht 410-414, 4292	1353	14313	11.0	7.7	10.6	505	4068	5.8	2.2	8.1	1858	18380	9.2	5.0	9.9
–C.V./St 430-4, 436-8	261	3213	2.5	1.7	12.3	242	2774	4.0	1.5	11.5	503	5987	3.0	1.6	11.9
–Arteries 440-448	145	1300	1.0	0.7	9.0	45	438	0.6	0.2	9.7	190	1737	0.9	0.5	9.1
Respiratory 460-519	366	3768	2.9	2.1	10.3	239	2397	3.4	1.4	10.0	605	6164	3.1	1.8	10.2
–Pneu/Infl 480-487	105	1189	0.9	0.7	11.3	73	932	1.3	0.6	12.8	178	2121	1.1	0.6	11.9
–C.P.D.(+) 491-2, 496	190	1255	1.0	0.6	6.6	108	740	1.1	0.4	6.9	298	1995	1.0	0.5	6.7
–Asthma 493	18	370	0.3	0.2	20.6	24	390	0.6	0.3	16.3	42	760	0.4	0.2	18.1
Digestive 520-579	271	4445	3.4	2.6	16.4	175	2388	3.4	1.3	13.6	446	6832	3.4	1.9	15.3
–Chr.Liv/Cirr 571	140	2435	1.9	1.4	17.4	72	1155	1.7	0.6	16.0	212	3590	1.8	1.0	16.9
Cong. Anomaly 740-759	71	4794	3.7	3.7	67.5	54	3417	4.9	2.7	63.3	125	8210	4.1	3.2	65.7
Perinatal 760-779	85	6254	4.8	4.9	73.6	73	5439	7.8	4.3	74.5	158	11692	5.8	4.6	74.0
Ext. Causes E800-999	1140	42474	32.6	28.0	37.3	367	12118	17.3	8.4	33.0	1507	54592	27.3	18.3	36.2
–M.V.Tr.Acc E810-819	375	15756	12.1	11.0	42.0	122	4355	6.2	3.3	35.7	497	20111	10.0	7.2	40.5
–Poisoning E850-869	113	3858	3.0	2.2	34.1	39	1288	1.8	0.8	33.0	152	5145	2.6	1.5	33.8
–Falls E880-888	73	1758	1.3	1.1	24.1	23	273	0.4	0.1	11.8	96	2030	1.0	0.6	21.1
–Suicide E950-959	263	9038	6.9	5.5	34.4	79	2508	3.6	1.5	31.7	342	11545	5.8	3.5	33.8
All Other Causes	508	13085	10.0	8.6	25.8	385	8749	12.5	5.8	22.7	893	21833	10.9	7.2	24.4
All Causes	6848	130356	100.0	80.3	19.0	4220	69910	100.0	44.0	16.6	11068	200266	100.0	62.2	18.1

Note: Standard rates of PYLL are based on 1971 Canada Census per 1,000 population. (+) : Chronic pulmonary disease: chronic bronchitis; emphysema and COPD.